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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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PATENTS AND DESIGNS

Calcutta, the 11th July 1987

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CORRIGENDUM

(1)

In the Gazette of India, Part III, Section 2, dated 11-4-1987 under the heading "Applications for Patents filed in the Patent Office Branch at Todi Estate, 3rd Floor, Sun Mill Compound, Lower Parel (West), Bombay-400 013" on page No. 256,

(i) in respect of Patent Application No. 44/BOM/87 for the Application No. "47/BOM/87" read "44/BOM/87".

(ii) in respect of Patent Application No. 45/BOM/87 for the application No. "42/BOM/87" read "45/BOM/87".

(iii) in respect of Patent Application No. 46/BOM/87 for the application No. "43/BOM/87" read "46/BOM/87".

(iv) in respect of Patent Application No. 46/BOM/87 in the title of the invention for "CHART" read "CHAIR".

(2)

In the Gazette of India Part III Section II dated 7th March, 1987 under the heading "Complete Specification accepted" in page 164 in respect of Patent Specification No. 158991, insert; Complete after Provisional left on 16th July 1983.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700020

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 4th June 1987

440/Cal/87 Metz Mannheim GmbH. Fish tank for intensive fish fattening and process for operating such a fish tank.

The 5th June 1987

441/Cal87 Metallgesellschaft Aktiengesellschaft. Fluidized bed system.

442/Cal/87 Aluminium Pechniney. Apparatus and process for optimising combustion in chamber-type furnaces for carbonaceous blocks.

443/Cal/87 Sulzer Brothers Limited. A wet yarn store for a loom.

The 8th June 1987

444/Cal/87 Saint—Gobain Recherche. Technique for the electric melting of glass.

445/Cal/87 Goira Goldman. Hydraulic pneumatic acuator for impact cutter.

The 9th June 1987

446/Cal/87 Gould Inc. Double matte finish copper foil.

447/Cal/87 Voith Turbo GmbH & Co. Kg. A hydrodynamic coupling.

448/Cal/87 Westinghouse Electric Corporation. Boresonic inspection system.

449/Cal/87 Mitutoyo Corporation. Displacement detecting apparatus

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES THIRD FLOOR, SUNMILL COMPOUND, LOWER PAREL (WEST), BOMBAY-13.

The 13th April 1987

128/BOM/87 Dr Rachhpal Singh Bali Fruit basket sack.

129/BOM/87 Hindustan Lever Ltd. 14-4-86 Great Britain, Detergent powders and process for their preparation.

The 14th April 1987

130/BOM/87 Saalvees Bandhu Bhav. The speedier bicycle.

131/BOM/87 Gujarat State Fertilizers Co. Ltd. Improvements in or relating to a method of preparing methyl esters of dicarboxylic acids.

132/BOM/87 R. P. Patel. Gravity energy engine.

133/BOM/87 Krishnarao Rajaram Ashtikar. Agriculture No. 1 Pits forming machine.

134/BOM/87 Krishnarao Rajaram Ashtikar. Agriculture No. 2 Seed fertilizer planter.

135/BOM/87. Krishnarao Rajaram. Ashtikar. Agriculture No. 3 Nursery Planter. (Seeding uplooting chimpda.

136/BOM/87 Krishnarao Rajaram Ashtikar. Agriculture No. 4 Forking Machines.

The 15th April 1987

137/BOM/87 Swapan Manilal Shah. A contour grinding & polishing machine for grinding and polishing contour of marble and granite slabs, blocks.

The 20th April 1987

138/BOM/87 Homi Framroz Maneksha. Improvements in or relating to a Gate valve.

139/BOM/87 Vinay Ramkumar Gupta. Portable miniature

The 21st April 1987

140/BOM/87 K. R. Dolaria. A hand operated coolant pump. battery operated vaccum cleaner.

141/BOM/87 M. K. Moghe. Improved electrically insulating and chemically inert conduit sections for electrical wiring system

The 24th April 1987

142/BOM/87 D. S Joshi. Measured Quantity Dispensing stopper for recepticals.

143/BOM/87 Deepak Ramakant Temkar. A process of cinematography to produce a product which is not capable of being legibly duplicated and played back by video and television systems.

144/BOM/87 S. Anantharaman. R. Rajashekar. H. A. Gopinath. Folding flat pre-fabricated pre-stressed cement concrete slab/panel to produce 3-dimensional structures and method of making such structures.

The 27th April 1987

145/BOM87 Scitech Centre. A device for artificial insemination in animals.

146/BOM/87 Scitech Centre. A novel method of enabling faster release of contents from soluble containers in aqueous and non-aqueous media and a method of sustained release from soluble and insoluble containers

147BOM/87 Satishchandra Dahyabhai Patel Improvement and modification in dosserloader can be attached with tractor.

The 28th April 1987

148/BOM/87 Shamrao Bhanudas Parhate. Automatic arc welding spart protector for welders.

The 29th April 1987

149/BOM/87 Miss Suma Iyengar. Swakalpa.

150/BOM/87 Ramesh Dattaraya Pujar. A device to provide guide for a tap.

151/BOM/87 B. V. Deshpande. New Beater.

APPLCATION FOR PATENTS FILING AT FOR PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002.

The 18th May 1987

360/MAS/87 Brakes India Limited. "A Hose End for Hydraulic Brake System."

361/MAS/87 T. Muthu. Poly Point Fuse Carrier.

362/MAS/87 Caterpillar Inc. Track Shoes Having Toothed Grousers.

(September 29th, 1986, Canada)

363/MAS/87 Fives-Cail Babcock. "Mechanism for Transforming a reciprocating rectilinear motion into an intermittent rotary motion".

364/MAS/87. Aluminium Pechiney. "Method of Regulating the tar Content of Anodes Intended for the Production of Aluminium by Electrolysis".

The 19th May 1987

365/MAS/87 Maschinenfabrik Rieter AG. Arrangement for Supplying a Fibre processing Machine.

366/MAS/87 Ampex Corporation of 401 Broadway. "Method and Apparatus for Magnetic Transducing". (December 15th, 1986, Canada).

367/MAS/87 Ampex Corporation of 401 Broadway. Method and Apparatus using a Stationary saturable member for Transferring Signals Relative to a Magnetic Storage Medium. (December 15th, 1986, Canada).

368/MAS/87 Ampex Corporation. Magnetic record medium Having Discrete Magnetic Storage and Saturable Layers and Magnetic Signal Processing Apparatus and method Using the Medium. (December 15th, 1986, Canada).

The 20th May 1987

369/MAS/87 Gurusami Kulasekara Pandian. Floating Rotor Electric current Generator.

370/MAS/87 Ari Technologies Inc. Method and apparatus for Melting Sulfur in Aqueous Sulfurries.

371/MAS/87 Pfister GMBH. Force Measuring Device.

372/MAS/87 Robert Bosch GMBH. A Stator for an Electrical Machine.

373/MAS/87 Union Carbide Corporation. Improved Transition Metal Complex Catalyzed Reactions.

374/MAS/87 Michelin and CIE. "Process and Machine for the Manufacture of a tire Reinforcement".

The 21st May 1987

375/MAS/Ametex AG. Mixture for manufacture of shaped elements and its use.

376/MAS/87 Dailey Petroleum Services. "Mechanical Directional Drilling Jar".

377/MAS/87 Nippon Oil & Fats Co., Ltd. "Untraviolet-Currable Coating Composition.

378/MAS/87 Nissei ASB Machine Co., Ltd. Mold Device for Molding a Preform. (November 26th, 1986, Australia).

The 22nd May 1987

379/MAS/87 Davy Mickee (London) Limited. "Process". (June 3rd, 1986. U.K.).

380/MAS/87 Gene Link Sustralia Limited. Coated Veterinary Implants. (May 23rd, 1986, Australia).

The 25th May 1987

381/Mas/87 M. D. Jos. Brushless Eddy Current Clutch.

382/Mas/87. G. V Shet. 2 Anti Mosquiqto Lotion.

383Mas/87 A. Ahlstrom Corporation. Fluidized bed reactor.

384/Mas/87 Shamprogetti S.p.A. Process for the selective removal of hydroen sulphide.

385/Mas/87 Institut Francais Du Petrole. A seismic signal Transmission system using relay radios.

The 26th May 1987

386/Mas/87 Lucas Industries Public Limited Company. An Internal Shoe Drum Brake.

387/Mas/87 L. G. Varadaraj. A Truck Tyre Remover.

388/Mas/87 L. G. Varadaraj. A Lug-Matching pre cured treads.

389/Mas8/7 L. G. Varadaraj. A Inline Wet Grinder.

390/Mas/87 Mtschinenfabrik Rieter AG. Bobbin Tube Supports. (July 18, 1986; Great Britain).

The 27th May 1987

391/Mas/87 Shell Internationale Research Maatschappij B. V. Hydrocarbon conversion process and catolysts. (May 30, 1986; Great Britain).

392/Mas/87 Shell Internationale Research Maatschappij B. V. Hydrocarbon conversion catalysts. (May 30, 1986; United Kingdom).

393/Mas/87 Calgene, Inc. Transormation and foreign gene expression in brassica species.

394/Mas/87 Dr. rer. nat. Hans-Georg Boehm. Steam pressure cooking pot with a seal securing the inside space of the pot against a drop in pressure.

395/Mas/87 Bow Corning Corporatioin. A plasma smelting process for silicon.

The 28th May 1987

396/Mas/87 Ammonia Casale S. A. & Umberto Zardi. System to improve the mixing of reacted gases and quench gases in the heterogeneous synthesis reactors.

397/Mts/87 Didier Ledeuil. Method for rendering waterproof a roller compacted concrete or rubble hydraulicstructure.

398/Mas/87 Atochem Lubricants, polyfluorinated compounds usable in lubricants and a process for their preparation.

ALTERATION OF DATE

160370. (148/Cal/86)	Ante dated to 28th January, 1983.
160410. (908/Del/84)	Ante dated to 11th May, 1981.
160414. (230/Mas/84)	Ante dtted to 29th October, 1981.
160418. (523/Mas/84)	Ante dated to 31st August, 1981.

160429. (172/Mas/84)	Ante dated to 5th September, 1980.
160432. (1001/Mas/84)	Ante dated to 18th May, 1982.
160433. (1002/Mas/84)	Ante dated to 18th May, 1982.
160434. (1004/Mas/84)	Ante dated to 18th May, 1982.
160435. (1005/Mas/84)	Ante dated to 18th May, 1982.
160436. (1006/Mts/84)	Ante dated to 18th May, 1982.
160439. (1044/Mas/84)	Ante dated 10th December, 1982.
160440. (1045/Mas/84)	Ante dated to 10th December, 1982.
160441. (1046/Mas/84)	Ante dated to 10th December, 1982.
160486. (261/Mas/84)	Ante dated to 26th August, 1981.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

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CLASS : 35 E & 206 E 160351

Int. Cl. : C 04 b—33/00, 35/00.

A PROCESS FOR THE PREPARATION OF MODIFIED LEAD ZIRCONATE TITANATE CERAMICS.

Applicant : THE CHIEF CONTROLLER RESEARCH AND DEELOPMENT, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI (INDIA), AN INDIAN NATIONAL.

Inventors : VINCENT FRANCIS D'SOUZA, RAJIV DAYAL, SURESH CHANDRA SHARMA AND RAMJI LAL.

Application for Patent No. 657/Del/1983 filed on 23 September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A process for the preparation of modified lead zirconate titanate ceramics which comprises in spray drying the stoichiometrically blended solution of the nitrates of lead, strontium, zirconium and titanium, and then decomposing by heating the nitrates into the corresponding oxides, subjecting the oxide mixture to the step of calcination and consolidating by cold compaction the reacted powders to obtain said ceramics.

Complete specifications 11 pages.

CLASS : 127 C 160352

Int. Cl. : F 16 H—9/24.

FLEXIBLE POWER TRANSMISSION BELT.

Applicants : UNIROYAL, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW JERSEY, ONE OF THE UNITED STATES OF AMERICA HAVING AN OFFICE AT 1230 AVENUE OF THE AMERICAS, NEW YORK, NEW YORK 10020, U.S.A.

Inventors : THADDEUS FRANK CATHEY JOHN CORNENUS GAYNOR RODNEY JOHN NELSON.

Application for Patent No. 667/Del/1983 filed on the 27th September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

15 Claims

A flexible power transmission belt having a plurality of teeth separated from each other by a plurality of alternation belt land areas; each tooth having a center line and comprising a pair of opposed flanks each of which in longitudinal cross-section has a generally convex arcuate contour, each flank being joined to the adjacent belt land area by a root having an arcuate contour approximating an arc of a circle having a given first radius and having a tooth tip portion connecting said pair of flanks at a location spaced from said root each tooth having a longitudinal width dimension measured between the points where said root arcs intersect the opposing flanks of the belt tooth and a height dimension measured from the belt land line representing an extension in longitudinal cross-section of the belt land area to the outermost surface portion of the tooth tip, said height dimension being in the range 0.50 to 0.67 of said tooth width dimension, each of the arcuate flanks approximating an arc of a circle and being formed such that a line drawn tangent thereto at a point spaced a distance equal to .3 times the said width dimension from the belt land line will intersect the tooth center line at an angle in the range of 18° to 23°, and said belt land area joining the root of adjacent teeth, having a length dimension in longitudinal cross-section in the range 0.2 to 0.66 of said tooth width dimension.

Compl. specn. 25 pages. Drg. 2 sheets

CLASS : 80H 160353

Int. Cl. : B01d 21/20, 21/06, 21/16, C02c 1/26.

A SEDIMENTATION APPARATUS HAVING RAKE LIFTING MEANS.

Applicant : DORR-OLIVER INCORPORATED, A DELAWARE CORPORATION, HAVING A PLACE OF BUSINESS AT 77 HAVEMEYER LANE, STAMFORD, CONNECTICUT, 06904, U.S.A.

Inventors : JACK HAROLD EICHLER AND STEPHEN ALLAN LANDSMAN.

Application for Patent No. 684/Del/1983 filed on 3rd October 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A sedimentation apparatus having rake lifting means including a settling tank for separating solids from a liquid-solids suspension, a settled solids collecting zone on the tank bottom, a rotary rake mechanism effective to move the settled solids on said tank bottom to said settled solids collecting zone for discharge from said tank characterised in that said rotary rake mechanism comprising:

(a) at least a pair of rake arms each having blades at the bottom thereof adapted to engage the settled solids on the tank bottom;

(b) support means mounting said rake arms for rotation about a vertical axis at the centre of said settling tank;

(c) rake lifting means interconnected to said rake arms and to said rake arm support means, said rake lifting means including dual pairs of vertically spaced and parallel pivot arms for each of said rake arms, each pivot arm of a pair of said pivot arms being horizontally spaced one from the other, and each having a hinge connection to said rake arm and to said support means; and

(d) actuating means to move said dual pair of pivot arms of a rake arm about said hinge connection in union to raise or lower said rake arm in a vertical plane relative to said tank bottom.

Compl. specn. 10 pages. Drg. 3 sheets

CLASS : 39 G 160354

Int. Cl. : C01G—23/00.

PROCESS FOR PRODUCING TITANIUM TETRACHLORIDE.

Applicant : KERR-McGEE CHEMICAL CORPORATION OF KERR-McGEE CENTER OKLAHOMA CITY, OKLAHOMA 73125 UNITED STATES OF AMERICA, A CORPORATION ORGANISED UNDER THE LAWS OF DELAWARE, U.S.A.

Inventor : ALAN JOSEPH MORRIS.

Application for Patent No. 775/Del/1983 filed on 22nd November, 1983.

Appropriate office for oppos/ition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

22 Claims

A process for producing titanium tetrachloride from natural or synthetic iron-titanium ore, comprising leaching the iron-tatanium ore with hydrochloric acid in a digestion zone to produce a solid phase, comprising upgraded titanium-containing material, and a spent liquid phase containing dissolved metal chlorides; separating the solid phase from the liquid phase in any known manner; regenerating hydrochloric acid from the spent liquid phase in an acid regeneration zone in any known manner; chlorinating the upgraded titanium-containing material of the solid phase in any known manner in the presence of a carbonaceous reducing agent in a reaction zone to produce a product stream containing titanium tetrachloride and entrained solids, including metal chlorides and unreacted upgraded titanium containing material; recovering the entrained solids from the product stream in any known manner; recycling the metal chlorides to the acid regeneration zone in any known manner; and recycling at least a part of the entrained solids to the reaction zone.

Complete specification 23 pages. Drg. 3 sheets

CLASS : 9A 160355

Int. Cl. : C22c—21/00.

AN IMPROVED PROCESS FOR THE PREPARATION OF ALUMINIUM ALLOYS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : RAJENDRA KUMAR, CHITTUR SUBRAMANIAN SIVARAMAKRISHNAN, NILENDU KUMAR DAS AND RANJIT KUMAR MAHANTI.

Application for Patent No. 794/Del/1983 filed on 29th November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

An improved process for the preparation of aluminium magnesium and/or aluminium silicon alloy comprises mixing aluminium with magnesium and/or silicon, melting the mixture in a vacuum chamber monitoring a vacuum between 0.001 mm to 8 mm, stirring the melt formed and allowing the melt to solidify in the vacuum chamber.

Complete specification 9 pages.

Provisional specification 10 pages.

CLASS : 32E 160356

Int. Cl. : C08f—114/00.

A PROCESS FOR PREPARING POLYALPHAOLEFINS.

Applicant : UNIROYAL, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW JERSEY, ONE OF THE UNITED STATES OF AMERICA, HAVING AN OFFICE AT 1230 AVENUE OF THE AMERICAS, NEW YORK, NEW YORK-10020, U.S.A.

Inventor : JAMIL AKBER KHAN, WALTER NUDENBERG, DAVID JOHN SMUDIN AND DEMETREOS NESTOR MATTHEWS.

Application for Patent No. 819/Del/1983 filed 5th December, 1983.

6 Claims

A process for preparing polyalphaolefins comprising contacting at least one monomer having the structure $H_2C{=}CHQ$ wherein Q is hydrogen or C_1-C_{16} alkyl with an anionic polymerisation catalyst such as herein described said process characterized in that is carried out in the presence of an activator having the formula $Y_mX_nCC(R^1){=}C^2(R^3)$, wherein Y is hydrogen, cyano or C_2-C_{10} carbalkoxy; X is chlorine or bromine; R^1 is hydrogen, chlorine, bromine or -$COOR^4$; wherein R^4 is C_1-C_{18} alkyl, C_3-C_{18} alkenyl, C_5-C_6 Cycloalkyl, C_7-C_9 aralkyl or C_6-C_{10} aryl; R^2 is hydrogen, chlorine, bromine or C_1-C_{18} linear or branched alkyl, or R^1 and R^2 together are C_3-C_{10} alkylene, R^3 is an electron withdrawing group; n is an integer of 1 to 3; and m is 3-n; and that the molar ratio of activator of catalyst is between 5 : 1 and 100 : 1.

Complete specification 18 pages.

CLASS : 39 P. 160357

Int. Class : C01 f 11/00.

"A PROCESS FOR PURIFYING MAN-MADE GYPSUM".

Applicant : KRUPP KOPPER, GmBH, OF MOLTKESTRASSE 29, D-4300, ESSEN 1, WEST GERMANY, A GERMAN COMPANY.

Inventor : HANS-WERNER GOSCH, KARL FRANKE, JORG KOHLBECKER & BAHRAM DORMICHIAN.

Application for Patent No. 834/Del/83 filed on 12th Dec., 1983.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rule 1972) Patent Office Branch, New Delhi-110005.

Claims 7

A process for purifying man-made gypsum by suspending said gypsum and washing the suspension in several stages with an aqueous washing medium of the kind such as herein described and returning a bleed stream of the waste water produced in the wash back into the suspending state, characterised by the following process features :

(a) The multistage wash of the gypsum takes place in a single filter unit in which the treated filtrate from the first washing stage is used as the washing medium;

(b) a part of the filtrate running off in the first washing stage, which part is at least equal to the amount of filtrate required for washing this gypsum, is passed into a downstream filtrate treatment stage, while the other part of this filtrate is returned into the suspending stage, together with the filtrates from the other washing stages;

(c) the filtrate passed into the filtrate treatment stage is brought to pH 2.5—4.5 in a first neutralisation stage by adding calcium ions and is separated from the sludge precipitating in the course of the pH adjustment, whereupon this filtrate is brought to pH 9—13 in a second neutralisation stage, likewise by adding calcium ions, and, following separation from the sludge, is then wholly or partly re-used for washing the gypsum;

(d) the sludges produced in the course of the treatment of the filtrate are individually or jointly subjected to an appropriate mechanical dewatering stage and are then further treated in a drying stage; and

(e) the excess treated filtrate, which is not used for washing the gypsum, is further treated in an evaporation stage, and the resulting distillate is used as fresh water, cooling water or boiler water and the resulting brine is dried together with the sludges from the filtrate treatment stage.

Complete Specification 11 pages. Drg. 1 sheet.

CLASS : 140 B_8 160358

Int. Clases : C11b—3/00.

"PROCESS FOR ALKALI REFINING TRIGLYCERIDE OILS".

Applicant : THIOKOL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF STATE OF DELAWARE, U.S.S. OF 110 N. WACKER DRIVE, CHICAGO, ILLINOIS 60606, U.S.A.

Inventors : SAMUEL FRANCIS HELEBRA, RICHARD ANTHONY MIKULSKI AND MICHAEL MILLER COOK.

Application for Patent No. 841/Del/1983 filed on 15th December, 1983.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-5.

10 claims

A process for alkali refining triglyceride oils of the kind such as herein described which comprises reacting said oil with an alkali solution to produce a refined oil and a soapstock, the improvement comprising conducting said alkali refining step in the presence of an alkali metal borohydride to improve the purity and/or color of said oil.

Complete specification 20 pages.

CLASS : 9F & $108C_8$. 160359

Int. Class : B01k 1/00.

"PROCESS FOR PURIFICATORY TREATMENT OF A METAL BATH FOR AVOIDING INTERACTIONS BETWEEN SAID METAL BOTH AND ATMOSPHERE".

Applicant : PAUL WURTH S.A., OF 32 RUE D' ALSACE, LUXEMBOURG, GRAND-DUCHY OF LUXEMBOURG, A COMPANY ORGANISED UNDER THE LAWS OF LUXEMBOURG.

Inventors : JEAN MONAI & HUBERT STOMP.

Application for Patent No. 849/Del/83 filed on 21st December, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

6 claims

Process for purificatory treatment of a metal both for avoiding interactions between a metal bath and atmosphere in the course of purificatory treatments oralloying operations, the metal being present in a ladle provided with a cover, which comprises the steps of generating an excess pressure inside the cover and continuously removing gas by suction around the cover but without thereby reducing the excess pressure underneath the cover.

Complete specification 7 pages. Drg. 1 sheet

CLASS : 180. 160360

Int. Class : F24C 3/00.

"AN IMPROVED LIQUIFIED PETROLEUM GAS STOVE".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001 INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : PREM NATH BHAMBI, KULDEEP NARAIN DOBHAL & ABNASHI LAL ARORA.

Application for Patent No. 867/Del/83 filed on 31st December, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 claims

An improved liquified pertoleum gas stove comprising a horizontal gas mixing tube (5) provided at its one end with an inlet (6) for the passage of air for combustion and fixed to a gas supply nozzle at the said one end for passing the gas into the tube and at its other end connected to a mixing chamber (9) characterised in that the said mixing tube is a ventury tube (7) to entrain maximum air for combustion through the inlet and that the burner head is provided with ports (12), said ports being disposed of at an angle of $15 \pm 50°$ to the vertical.

Complete specification 9 pages. Drgs. 4 sheets

CLASS : 80-C. 160361.

Int. Cl. B 01 d 37/00.

A METHOD OF RESTORING A GAS FROM A GAS STREAM CONTAINING PARTICULATE MATTER.

Applicant : THE PREHEATER COMPANY, INC., OF ANDOWER ROAD, WELISVILLE, NEW YORK, UNITED STATES OF AMERICA.

Inventor : THOMAS COOK SUNTER.

Application No. 1114/Cal/83 filed September 12, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 claims

In a method of restoring a gas from a gas stream containing particulate matter wherein the particulate matter-laden gas stream is passed through a fabric filter collection apparatus comprised of a plurality of independent, isolatable filter chamber each housing fabric filter means upon which a portion of the particulate matter deposits, the particulate matter-laden gas stream being subdivided upstream of the collection apparatus into a like plurality of independent, isolatable filter chambers prior to recombining said substreams downstream of said collection apparatus to form a relatively particulate matter-free gas stream, an improved method of sequentially cleaning said plurality of fil chambers of deposited particulate matter comprising :

(a) continuously sensing the gas pressure differential across the dust collector between a point upstream of the subdivision of the particulate matter-laden gas stream into plurality of substreams and a point downstream of the recombination of third substreams into the relatively particulate matter-free gas stream;

(b) isolating one of said plurality of filter chambers from gas flow and diverting the substream flowing thereto amongst the remaining filter chambers of said plurality of filter chambers;

(c) thence cleaning the particulate matter depositing upon the fabric filter means disposed within said isolated filter chamber;

(d) thence returning said cleaned filter chamber to service by re-establishing gas flow therethrough;

(e) comparing the gas pressure differential across the dust collector sensed at the initiation of step (b) to the gas pressure differential across the dust collector sensed at the completion of step (d); and

(f) whenever the gas-pressure differential across the dust collector sensed at the completion of step (d) exceeds that sensed at the initiation of step (b) actuating an alarm indicating a malfunction of the cleaning process.

Complete specn. 15 pages. Drg. 2 sheets

Slip No. 23-24

CLASS : 63-I 160362

Int. Cl. : H 02 p 7/00.

A THREE PHASE VARIABLE FREQUENCY CONSENT TORQUE CONTROLLER FOR A HIGH TORQUE SERVO POSITIONER.

Applicant : THE BABCOCK & WILCOX COMPANY AT 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LA 70160, UNITED STATES OF AMERICA.

Inventor : 1. JOHN WALTER ROBERTSON JR., 2. JAMES MERRITT SMITH.

Application No. 445/Cal/83 filed April 18, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A three phase variable frequency constant torque controller for a high torque servo positioner comprising :

an inverter including a plurality of drivers for generating a plurality of AC signals which are mutually out of phase and which are applied to the servo positioner; each driver enerating an AC signal corresponding to a pulse width moulated waveform;

a power supply connected to said drivers for applying a filtered and rectified DC voltage to said drivers;

an overcurrent detector connected to said drivers for detecting a current above a selected limit in said AC signals; and

as position control module connected to said drivers for generating said pulse width modulated wavefroms and for receiving a signal from the servo positioner indicating a position thereof, said position control module adapted to receive digital signals and analog signals, said analog signals corresponding to gain, set point feedback and dead band signals for the servo positioner;

said position control module comprising a programmable microprocessor, a read only memory connected to said microprocessor, for carrying a plurality of tables corresponding to said plurality of pulse width modulated signals, an analog to digital converter for receiving for receiving the analog signals and converting them to digital signals readable by said microprocessor a plurality of times connected to said microprocessor for generating said pulse width modulated signals and for generating interrupt signals, said position control module connected to said overcurrent detector for initiating an interrupt signal upon detection of an overcurrent.

Compl. specn. 28 pages Drgs. 3 sheets

CLASS : 123 160363

Int. Cl. : C 05 f 11/10; C 05 g 3/00.

A COMPOSITION FOR CONTROLLED NOURISHING OF AGRICULTURAL PLANTS.

Applicant : BUDAPESTI VEGYIMUVEX OF 1097 BUDAPEST, KEN U. 5, HUNGARY.

Inventors : 1. DR. JOZESF KARASAI, 2. LAJOS DIENES, 3. DR. ROZA CSANYI, 4. DR. PETER INCZEDY.

Application No. 156/Cal/83 filed February 10, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Composition for controlled nourishing of agricultural plants, in particular cereals, maize and sunflower and for the intensification of their cultivation, which comprises in an aqueous solution or suspension a combination of

(a) 0.1 to 80% by mass of a mixture of meso-and micro-elements in the form of the complexes of their salts, expressed in elements, which contains at least

5.10^{-3}% by mass of zinc,
5.10^{-4}% by mass of boron,
1.10^{-3}% by mass of copper,
1.10^{-3}% by mass of magnesium,
1.10^{-3}% by mass of iron,
1.10^{-1}% by mass of finely divided sulfur;

(b) 0.01 to 25% by mass of 2-chloroethane-phosphonic acid or esters or salts thereof; and

(c) 1.0 to 20% by mass of urea,

in a total amount of 1.0 to 95.0% by mass, in admixture with additives suitable for the flotation and/or dispersion of the solid phase and wetting agents.

Compl. specn. 43 pages. Drg. Nil

CLASS : 63-I 160364

Int. Cl. : H 02 k 1/02.

PERMANENT MAGNET ROTARY DYNAMO ELECTRIC MACHINE.

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, OF GREAT KING STREET, BIRMINGHAM, B 19 2XF, ENGLAND.

Inventor : JOHN GODFREY WILSON WEST.

Application No. 1438/Cal/83 filed in November 22, 1983. Convention dated 22nd November, 1982. (33268) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A permanent magnet rotary dynamo electric machine of the kind wherein relative rotation occurs between a plurality of permanent magnet poles and a plurality of wound poles *characterized in that* each permanent magnet pole is provided with a flux shunt in the form of a shield of material of high saturation flux density engaging the air gap face of the strong tip region of the pole and also engaging the part of the iron circuit of the machine upon which the permanent magnet pole is supported so as to provide a direct flux path between the air gap at the strong tip region of the pole and the iron circuit, said direct flux path being arranged to shunt magnetic flux to the iron circuit when the current in the associated winding is low, but to be saturated by flux flowing in the opposite direction at high values of winding current.

Compl. Specn. 32 pages. Drgs. 8 sheets

CLASS : 116-C & D 160365

Int. Cl. : B 66 f 9/06; E 02 f 3/83.

A SIDE EMPTYING CONTAINER, SUCH AS A LOADER BUCKET.

Application No. 1117/Cal/83 filed September 13, 1983 EARLSWAY, TEAM VALLEY, GATESHEAD, NE 11 0SB, ENGLAND.

Inventor : 1. DAVID GRANT.

Application No. 1117/Cal/83 filed September 13, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A side emptying container such as a loader bucket having a discharge plate dimensioned to constitute a side wall of the container, and a ram-driven chain mechanism which is located within the full width and normal outer rear profile of the container, and is operable to move said discharge plate from one side to the other of the container to discharge the contents thereof, characterised in that the discharge plate is inclined at an angle to the vertical so that during discharging movement of the discharge plate the lower edge of the discharge plate is located forwardly of its upper edge, the angle of inclination being sufficiently large so that during discharging movement, a resistive force acting at right angles to the discharge plate causes the plate to be pressed firmly against the inside of the bucket to assist in preventing particles from becoming trapped between the plate and the bucket.

Compl. specn. 9 pages. Drgs. 2 sheets

CLASS : 102-D 160366

Int. Cl. : B 23 p 3/00; B 23 q 15/00.

SYNCHRONOUS VIBRATORY IMPACT HAMMER.

Applicant : ALLIED STEEL & TRACTOR PRODUCTS, INC., 5800 HARPER ROAD, SOLON, OHIO 44139 USA.

Inventor : 1. EDWARD J. BOUPLON.

Application No. 197/Cal/83 filed February 17, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A vibratory impact hammer including a support frame a hammer body assemblage suspended within the support frame by resilient means arranged to provide guiding and damping action in either direction of axial movement of the hammer body assemblage, said hammer body assemblage having a given stroke, said resilient means being the sole means engaging the hammer body assemblage so that extraneous frictional forces are avoided, vibratory drive means arranged to develop a forcing frequency to vibrate the hammer body assemblage in an axial direction, said forcing frequency set to lead the vibrated frequency of the hammer body assemblage by 135°, and a tool reciprocably mounted in the support frame and positioned to receive impact blows of the hammer body assemblage when reciprocated by the vibration drive means.

Compl. specn. 9 pages. Drgs. 4 sheets

CLASS : 47-C 160367

Int. Cl. : C 01 b 3/00, 5/00.

IMPROVED CHECKER BRICK FOR USE IN THE REGENERATIVE CHAMBER OF COKE OVENS.

Applicant : METALLURGICAL & ENGINEERING CONSULTANTS (INDIA) LIMITED, OF RANCHI, 834002 (A GOVT. OF INDIA UNDERTAKING), BIHAR, INDIA.
Inventors : 1. GOPALAN NAIR VENUGOPAL, 2. POTLA PALLI KRISHNA RAO, 3. SHRIKANT SHRIRAM JAITARE, 4. NANDA KUMAR SHRIDHAR TEKADAY.

Application No. 436/Cal/85 filed June 7, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Improved checker brick of the type as described herein before, for use in regenerator chambers of cock oven battery, characterised in that the outer surface of one of the side walls of the brick is plain without any projection(s)/contour(s), and the longitudinal upper edge of the said side wall is provided with a cut, such that two said checker bricks, when placed adjacent each other with the plain surface side wall of one being in contact with that of the other, are adapted to provide a common partition wall, defined by its said side walls for the regenerator chamber, and to define at the upper surface a continuous groove constituted by the said cuts provided in each said brick, said groove being adapted to accommodate a heat-insulating packing to resist escape of gas through the adjoining bricks.

Compl. specn. 11 pages. Drg. 1 sheet

CLASS : 163-C 160368

Int. Cl. : F 04 c 23/00.

MULTISTAG ROTARY PUMP.

Applicant : KLEIN, SCHANZLIN & BECKER AKTIENGESELLSCHAFT, OF POSTFACH 225, JOHANN-KLEIN-STRASSE 9, D-6710 FRANKENTHAL (PFALZ), FEDRAL REPUBLIC OF GERMANY.

Inventors : 1. AXEL GRONER, 2. PETER BUSCHSIEPER.

Application No. 1/Cal/85 filed January 1, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A multistage rotary pump (2) for conveying hot liquids particularly a feeder pump for use in high elective power generating stations having shaft packing system provided in the external cooling system characterized in that it has a control member (14 or 19) which is connected to one or more control valves (13) when the said member is in its off position while the pump (2) is working normally and causes to shut off the cooling system of pump through the said valve or valves (13) when the pump is stopped.

Compl. specn. 9 pages. Drgs. 3 sheets

CLASS : 94-A 160369

Int. Cl. : B 02 c 17/22.

INTERNAL LINING FOR BALL MILLS.

Applicant : VOEST-ALPINE AKTIENGESELLSCHAFT. OF A-4020 LINZ, RUDDENSTRASSE 5, AUSTRIA.

Inventors : 1. ERICH PICHIMAIER, 2. MANFRED ZOLLER.

Application No. 185/Cal/85 filed March 13, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Internal lining (16) for cylindrical ball mills, characterized by the combination of the features, individually known per se, that it has riffles (4) approximately extending in circumferential direction and has webs (9) located between the riffles (4) and that there are provided elevations (6) and/or depressions (7) transversely arranged relative to the circumferential direction.

Compl. specn. 11 pages. Drgs. 2 sheets

CLASS : 14-D 160370

Int. Cl. : H 01 m 1/00.

A METHOdD OF MAKING LEAD ACID STORAGE BATTERY GRID.

Applicant : CHLORIDE INDIA LIMITED, OF EXIDE HOUSE, 59E, CHOWRINGHEE ROAD, CALCUTTA-700020, WEST BENGAL INDIA.

Inventor : 1. SURENDRA KUMAR MITTAL.

Application No. 148/Cal/86 filed February 28, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A method of making lead acid storage battery grid which comprises the step of melting lead, antimony, cadmium and zinc alloy which is prepared by melting pure lead, adding to melt antimony in an amount of 0.1% to 0.5% the balance being lead, the percentages being based on the total weight of said alloy, and casting the molten alloy to the desired grid form or to a form from which the grid is made by subsequent processing e.g. expended grid technology.

Compl. specn. 15 pages. Drg. Nil

CLASS : 172 D, 172 C 160371

Int. Cl. : 01 g 7/00.

"APPARATUS FOR OPENING TEXTILE FIBRE BALES."

Applicant : MASCHINENFABRIK RITER AG, A BODY CORPORATED UNDER THE LAWS OF SWITZERLAND, OF CH-8406 WINTZERTHUR, SWITZERLAND

Inventors : 1. ROLF BINDER, 2. DANIAL HANSELMANN, 3. WALTER SCHLEPFER.

Application for Patent No. 386/Mas/84 filed on 25th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

Apparatus for opening of textile fibre bales with a fibre extraction element for extraction of fibre flocks from the upper surface layers of a textile fibre bale together with a pneumatic transport duct above the fibre extraction element for further transport of delivered fibre flocks, and also with a fibre diverting means which extends over the whole length of the fibre extraction element and immediately adjoins thereon in order to guide fibre flocks delivered from the fibre extraction element into the transport duct, the fibre diverter means, being pivotable out of the region in the immediate neighbourhood of the fibre extraction element.

Compl. specn. 11 pages. Drgs. 3 sheets

CLASS : 63 I, & 172 D 8 160372

Int. Cl. : D 01 h 1/00, 7/00.

"A SINGLE MOTOR MULTISPEED DRIVE FOR RING FRAMS."

Applicant : SURYA GEARS, A REGISTERED INDIAN PARTNERSHIP FIRM OF A "JAWAN'S BHAWAN" 27 TRAVELLER'S BUNGLOW ROAD, COIMBATORE 641018, INDIA, OF WHICH THE PARTENERS ARE SURESH WILLIAMS, ARUNDATHY WILLIAMS AND SUSHEILA WILLIAMS, ALL INDIAN CITIZENS AND ALL OF THE ABOVE ADDRESS.

Inventor : SURESH WILLIAMS.

Application for Patent No. 392/Mas/84 filed on 28th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A single meter multispeed drive for ring frames, comprising at least one flat belt running on the stepped conical pulley mounted on a drive motor and at least one correspondingly tapered conical pulley mouned on a ring frame, a shifting means for the belt consisting of a shifting fork with or without guide rollers which is driven by a reversible control matter, the control motor being activcated by contactors connected to limit switches provided at the two ends of said shifting means.

Compl. specn. 10 pages. Drgs. 3 sheets

CLASS : 87 C 160373

Int. Cl. : A 63 b 51/00.

"RACQUET WITH IMPROVED STRING ANCHORAGE."

Applicant & Inventor : JONETHAN C. MOTT, OF OLD FORGE COTTAGE, THE COMMON, WERASH-GUILDFORD GU 50PI, ENGLAND; A BRITAIN NATIONAL.

Application for Patent No. 396/Mas/84 filed on 29th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

18 Clims

A racquet comprising : a string-supporting frame having a groove extending around internal poriphery thereof, the mouth of the groove being narrower than the base of the groove; a sinuous string-securing member having a plurality of spaced mounting portions anchored in the groove and a plurality of spaced string-securing loops projecting inwardly toward the center of racquet from the mouth of the groove, and a plurality of anchoring members in said groove which are winder than said mouth so as to be trapped within said groove behind said mouth, each of said anchoring members having a channel facing the base of said groove and retaining a respecting one of said mounting portions in said channel.

Compl. specn. 11 pages. Drgs. 2 sheest

CLASS : 7, 117 B, & 67 A 160374

Int. Cl. B 60 r 25/00

"A DEVICE FOR PREVENTING THEFT OF AUTOMOBILES"

Applicant & Inventor : BALASUBRAMANIAM BALAKRISHNAN, PLOT NO. 817, 63rd STREET, K.K. NAGAR WEST, MADRAS-600 078, TAMIL NADU, INDIA, INDIAN NATIONAL.

Application for Patent No. 405/Mas/84 filed on 2nd June 1984.

Appropriate office for opposition preceedings (Rule 4, Patents Rules 1972) The Patent Office, Madras Branch.

3 Claims

A device for preventing theft of an automobile comprising a master switch, at least three multiposition switches, electrically operated alarm means, a source of electric power and a plurality of pressure switches locatable on the jambs of the bennet, the doors and the beet of the automobile, wherin all but one of the contacts of the first multiposition switch are connected to the alarm means, the secure and pressure switches to complete a circuit; one of the contacts of the second multiposition switch is connected to the starter motor circuit of the automobile; one of the contacts of the third multiposition switch is connected to theignition coil circuit of the automobile, the master switch being connected to the said circuit to override the multiposition switches and permit normal operation of the automobile.

Comp. sepcn. 9 pages Drw. 1 sheet

CLASS : 172 C1 160375

Int. Cl. D 01 g 15/00

"A CARD CLOTHING FOR THE FLATS OF A CARDING MACHINE"

Applicant : GRAF & CIE. AG. of Alte Jonastrasse, 8640 Rapperswil, Switzerland, a Swiss Company.

Application for Patent No. 422/Mas/84 filed on 11th June 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

5 Claims

A card clothing for the flats of a carding machine and including a plurality of wires provided each with a row of teeth and a foot, including further an elongated supporting member supporting said plurality of wires theraded thereupon, and including at least one locking member lockingly holding said plurality of wires in a prestressed state against each other, said supporting member comprising an elongated thereof, provided with side plates extending longitutinally extending T-slet and at least one arresting member located at one end of the profile, each said wire provided at both its ends with a smoth, toothless section which said at least one locking member is wedged onto the end of said profile which is provided with said arresting member and in a state of abutting the directly adjacently located wire and of exerting a pressure there against said locking member having a foot section engaging said longitudinal T-slet and having at both its sides a projecting protrusion; said side plates of said supr porting member abutting the face surfaces of said smooth sections of said wires as well as the face surfaces of the projecting of said locking member.

Compl. specn. 12 pages. Drg. 1 sheet

CLASS : 167 C 160376

Int. Cl. : G 07 f 3/04.

A COIN SORTER APPARATUS FOR RECFIVING AND SORTING MIXED COINS.

Applicant : RISTVEDT-JOHNSON, INC. 891 FEEHANVILLE DRIVE, MOUNT PROSPECT, ILLINOIS 60056, UNITED STATES OF AMERICA, AN AMERICAN COMPANY.

Inventors : (1) VICTOR G. RISTVEDT, (2) WILLMA JANE JOHNSON.

Application No. 423/Mas/84 filed June 11, 1984.

Appropriate office for oppos/ition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

A coin sorter apparatus for receiving and sorting mixed coins by denomination comprising in combination :

a rotating disc having a resilient surface for receiving said mixed denomination coins and imparting a rotational movement to said mixed denomination coins;

an annular shaped stationary disc having a surface substantially parallel with said resilient surface and positioned sufficiently close to said resilient surface so that a portion of the stationary disc presses coins in contact therewith into the opposed resilient surface so that the resiliency of the surface urges the coins against the stationary disc with sufficient pressure to prevent radial movement of coins by centrifugal force due to rotation of the rotating disc, while permitting circumferential movement of the coins by rotation of the rotating disc;

selected areas of the surface of said stationary disc being recessed for releasing any coins entering such recessed areas from the pressure of said resilient surface and thereby permitting radial movement of coins within the recessed area by centrifugal force due to rotation of the rotating disc;

a first selected area of recesses on the underside of said stationary disc for receiving and rotating mixed denomination coins into the region between the two discs;

a second selected area of recesses on the underside of said stationary disc for removing coins stacked or shingled on another coin;

a third selected area recesses on the underside of said stationary disc for receiving coins from said second area and said recesses in said third area regions for releasing coins from a pressed engagement with said resilient surface and thereby permitting radial movement of coins within said regions by centrifugal force, and said regions being shaped to guide coins in a single file along a predetermined path to predetermined radial positions on the rotating disc;

a fourth selected area of recesses on the underside of said stationary disc for receiving coins from said third area and effecting a pressed engagement with said rotatin disc and with said recesses of said fourth area releasing coins in said fourth area from pressed engagement and being shaped to permit coins of

different sizes to radially escape by centrifugal force from between the surfaces of said stationary disc and said rotatable disc, at different preselected positic along the periphery of said stationary disc;

a first recess in said third selected area of recesses located to intercept improperly aligned coins in said third selected area of recesses, and radially inwardly directing said improperly aligned coins so as to return the improperly aligned coins to said first selected area of recesses; and

said first recess in said third selected area having substantially a ramp shape with respect to the circumferential movement of coins in said third selected area of recesses with said ramp shape being sufficiently steep so as to affect a rapid interception and movement of improperly aligned coins through said first recess and into said first area such that the backloging of exiting, improperly aligned coins in said first recess is avoided by the rapid throughout.

Compl. specn. 40 pages. Drg. 7 sheets

CLASS : 160 A & C 160377

Int. Cl. : B 60 j 1/12.

A BUS WINDOW FRAME ASSEMBLY.

Applicant : L.G. BALAKRISHNAN & BROS. LIMITED, TRANSPORT HOUSE, KARUR 639 002, TAMIL NADU, INDIA, A COMPANY DULY ORGANISED, AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

Inventor : RANGASAMY NAIDU NAGARAJAN.

Application No. 424/Mas/84 filed on 12th June 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

A bus window frame assembly comprising :

at least two spaced window frames of which at least one is movable, surrounded by a supporting frame engaging with corresponding spaced perimetral grooves on the exterior of the window frames;

perimetral grooves provided on the interior of the window frames for receiving and retaining window panes, characterised in that the perimetral ribs of the supporting frame terminate in flanges engageable with mating linings seated in and along the perimetral grooves on the exterior of the window frames;

a flexible lining supplemented by a flexible cotter seated in and along perimetral grooves on the interior of the window frames, providing a flexible seating for the window panes; and

a spring-loaded locking device having a locking lip fixed to the interior of the supporting frame, and fixed and movable handles attached to the movable window frame, the movable handle carrying a pawl which engages with the locking lip once the movable window frame butts against the supporting frame to close the window.

Compl. specn. 8 pages. Drg. 1 sheet

CLASS : 32 C & 83 A 4 160378

Int. Cl. : C 12 c 11/00.

Applicant : CPC INTERNATIONAL INC, OF P.O. BOX 8000, INTERNATIONAL PLAZA, ENGLEWOOD CLIFFS, NJ 07632, U.S.A., A DELAWARE CORPORATION, U.S.A.

Inventors : 1. DENNIS M. KATKOCIN, 2. NANCY S. WORD, 3. SHIOW SHONG YANG.

Application for Patent No. 442/Mas/84 filed on 18th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A process for producing a glucoamylase enzyme having a molecular weight of about 75,000±3,000 as determined by SDS-polyacrylamide gel electrophoresis, having a half-life of greater than 3 hours at pH 6 and 70°C, having a maximum glycoamylase activity at a pH of about 5.0, and having a maximum glucoamylase activity at pH 5 at a temperature of about 70°–75°C, which comprises culturing cells of a strain of Clostridium thermoamylolyticum under anaerobic conditions in a medium, which contains a carbohydrate source, a yeast extract, plus vitamins and minerals, and then isolating by known means the glycoamylase enzyme from the fermentation broth after removing the cells and precipitating extraneous matter.

Complete specn. 20 pages. Drg. Nil

CLASS : 179 C & F 160379

Int. Cl. : B 65 b 43/12, 53/04.

CONTAINER OF FLEXIBLE MATERIAL FOR RECEIVING A LIQUID.

Applicant : MICHEL GUIFFRAY, OF 136, RUE VULFRAN WARME, 80000 AMIENS, FRANCE, A FRENCH NATIONAL.

Inventor : MICHEL GUIFFRAY.

Applicttion No. 536/MAS/84 filed on 23rd July 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

A container of a flexible or semi-rigid material for receiving a liquid, said container having two planar bearing sides forming a dihedron whose angle is less than 90° when the container is filled with liquid, and said two planar sides being inter-connected by a neck at the end of which neck a liquid expelling opening is formed.

Compl. specn. 10 pages. Drgs. 2 sheets.

CLASS : 195 C & D 160380

Int. Cl. : F 16 k 3/00.

DISCHARGE CONTROL VALVE.

Applicant : KURIMOTO, LTD., A JAPANESE COMPANY, OF 12-19, KITA-HORIE 1-CHOME, NISHI-KU, OSAKA-SHI, OSAKA, JAPAN.

Inventor : YOSHIHARU TADOKORO.

Application No. 539/MAS/84 filed July 24, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

A discharge control valve including a valve casing that has an inlet port on one side and an outlet port on other side and has its upper and lower portions closed, the inside casing having been partitioned, by a pair of upper and lower partition walls fixed horizontally to the inside wall of said valve casing leaving a fixed vertical distance therebetween, into an upper chamber, an inlet chamber with said port and an

outlet chamber with said outlet port in the order named; and at hollow cylindrical valve body with openings on its both upper and lower ends that has been inserted axially slidably in a first passage hole and a second passage hole formed in said both partition walls and has protruded its valve shaft through an upper cover of the valve casing, a lower half portion of said valve body being made a discharge control portion with number of small holes formed in its peripheral surface, an upper half portion of the valve body being made a shutter portion whose peripheral wall is solid, such that when the lower end outer peripheral surface of the discharge control portion slide-fits in the second passage hole the outer peripheral surface of the middle portion between the shutter and discharge control portions slide-fits in the first passage hole, when the upper end peripheral surface of said shutter portion slide-fits in the first passage hole the outer peripheral surface of the middle portion of the both passages slide-fits in the second passage hole, when the lower end of said valve body abuts on the bottom wall of the outlet port the upper end of the valve body is located within the inlet chamber, and when the upper end of said valve body abuts on the upper cover the lower end of the valve body is located within the inlet chamber.

Compl. speen. 14 ptges. Drgs. 5 sheets

CLASS. : 24 B 160381

Int. Cl. : F 16 d-51/00, 65/00.

"DISC BRAKE".

Applicant : SOCIETE ANONYME D.B.A., OF CENTRE PARIS PLEYEL 93521 ST. DENIS CEDEX 01, FRANCE, A FRENCH COMPANY.

Inventors : JEAN-CLAUDE MERY AND ALAIN THIOUX.

Application for Patent No. 46/DEL/1984 filed on 17th January 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

Disc brake comprising at least one rotating brake disc, inner and outer friction pads, each of said pad having friction lining and a lining carrier plate, a fixed support having transverse end arms, extending above a portion of the periphery of the brake disc, and transverse guide means to support the friction parallel to the axis of said disc, a caliper, mounted on the rear transerverse arm of the fixed support by means of a pin so as to enable said caliper to pivot and slide along said pin, covering the friction pads and the portion of the disc or discs, a control actuator mounted on the caliper, to push the inner pad towards the outer pad whose lining carrier plate is brought to bear against the nose of the caliper, locking means, connected to the front arm of the fixed support for allowing said caliper to slide without pivoting, characterised by projections for support and locking, located on said lining carrier plates, at their front and rear ends, near their upper edges, said arms having, on the inner side of the central cavity of the fixed support, a bar for guiding and locking, the front end of the caliper having a securing notch and a retaining key inserted in a space between lower surface of the front guide bar and the corresponding surface of the retaining notch.

Compl. speen. 12 pages Drgs. 2 shts

CLASS : 179 A, E, 181 160382

Int. Cl. : F 16 j-15/00, 15/16, 15/54.

"SEAL ASSEMBLY FOR CLOSING A CAVITY IN A ROTARY PUMP, COMPRESSOR OR THE LIKE".

Applicant : THE BENDIX CORPORATION, OF BENDIX CENTER, SOUTHFIELD, MICHIGAN 48076, U.S.A. A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventors : BRIAN CHARLES DEEM & RALPH GILBERT ESLINGER.

Application for patent No. 65/Del/84 filed on 23rd January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A seal assembly (54) in a rotary pump, compressor or the like for closing a cavity between (a) a rotor (24), (b) a crankshaft (80) extending through an axial bore in said rotor and rotatable about an axis eccentric thereto, and (c) a stationary end member (14, 38) in which one end of said crankshaft is journailed, characterised in that said seal assembly comprises a disc (72) mounted in an axial gap between said rotor (24) and said stationary and member (14, 38), said disc (72) being provided therein with : (a) an eccentric opening (77) of the same eccentricity as said crankshaft (80) (b) a first flange (56) surrounding the periphery of said (72) and carrying a first resilient member (58) which slidably, engages said stationary end member (14, 38), said disc (72), rotating with the rotation of the crankshaft (80).

Compl. speen. 11 pages. Drgs. 2 sheets.

CLASS : 154 G 160383

Int. Cl. : B 41 n 1/24.

"IMPROVED DUPLICATING STENCIL".

Applicant : GESTETNER MANUFACTURING LIMITED, A BRITISH COMPANY, OF FAWLEY ROAD, TOTTENHAM, LONDON N 17 9LT, ENGLAND.

Inventor : JONATHAN GESTETNER, CYRIL GREEN, THOMAS HANRAHAN.

Application for Patent No. 76/DEL/1984 filed on 25th January, 1984. Convention application No. 8302373 dated the 28th January, 1983. (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A duplicating stencil comprising a sheet of stencil tissue impregnated with an ink-impervious pressure sensitive plastics coating and provided, at that part of the stencil sheet which first contacts the sheet of paper which receives the duplicated image and between the upper limit of the area which is to be imaged and the adjacent edge, with a flexible reinforcement sufficient to increase the durability of the imaged stencil in use.

Compl. speen. 11 pages.

CLASS : 87 E 160384

Int. Cl. : A 63 h-5/00, 33/04, 33/08.

"TOY BUILDING, BLOCK".

Applicant : INTERLEGO AG., OF SIHLBRUGGS TRASSE 3, 6340 BEAR, SWITZERLAND, A SWISS COMPANY.

Inventor : PETER BOLLI.

Application for Patent No. 80/Del/1984 filed on 28th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

16 Claims

A toy building block having on one face thereof at least one row of mechanical coupling pins and opposite thereto mechanical counter-coupling sockets, at least a plurality of said coupling pins in said row having electrically conducting and electrically insulating regions angularly spaced from each other, said electrically conducting region of each of said pins in said row being disposed at the same angular orientation, and at least one contact member within said block and forming a portion of said sockets, said contact member being electrically connected to said electrically conducting regions of a plurality of coupling pins in said row and having electrically conducting sufaces extening in a direction parallel to the longitudinal direction of said row of coupling pins.

Compl. specn. 27 pages. Drgs. 9 sheets

CLASS 87 E 160385

Int. Cl. : A 63 h-5/00, 33/04, 33/08.

"TOY BUILDING BLOCKS".

Applicant : INTERLEGO AG., OF SIHLBRUGGSTRASSE 3, 6340 BAAR, SWITZERLAND, A SWISS COMPANY.

Inventor : PETER BOLLI.

Application for Patent No. 083/Del/1984 filed on 30th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

13 Claims

A toy building block having on one face thereof at letst two perallel rows of coupling pins thereon and on the opposite side of said face counter-coupling sockets for mechanical engagement with the coupling pins of another similar block, the coupling pins of said two rows being arranged in adjacent pairs, means for making electrical contact with select ones of the coupling pins of each row, the select pins of each row being longitudinally displaced from the select pins of the other row and said means includes portions adapted to make electrical contact with the select pins of another similar block.

Compl. specn. 17 pages. Drgs. 5 sheets

CLASS : 27 E, G, I &O. 160386
Int. Cl. : E 04 b 2/00, 7/00.
E 04 c 2/38.

"A SHEET METAL CLADDING ELEMENT INTENDED IN USE TO SPAN AND TO BE SECURED TO AT LEAST TWO STRUCTURAL MEMBERS OF A BUILDING".

Applicant : AUSTRALIAN DESIGN MARKETING PTY. LTD., a company incorporated under the laws of the state of Queensland, Australia, of 252 Ruthven Street, Toowoomba Queensland 4350, Australia.

Applicant for Patent No. 90/Del/84 filed on 31st January, 1984.

Convention date 10-2-83/11314/83 (Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims

A sheet metal cladding element which is intended in use to span and to be secured to at least two structural member of a building, the said cladding element comprising :

a panel having opposed side edges and opposed top and bottom edges extending in a lateral direction between the side edges,

an inverted channel-shaped ridge extending along the top edge of the panel, the ridge being integral with the panel and including an inner wall which comprises an upwardly projecting extension of the panel,

a plurality of ribs located in the panel and extending from the inner wall of the ridge in a direction toward the bottom edge of the panel,

a series of recesses located in the inner wall of the ridge, each recess being in alignment with one of the ribs and defining a cavity into which the associated rigs extends, and a downwardly projecting lip extending along the bottom edge of the panel.

Compl. specn. 13 pages. Drgs. 6 sheets

CLASS : 85 J & 126 A. 160387

Int. Class : G01n—27/00, 27/10.

"APPARATUS FOR THE DETECTION AND MEASUREMENT OF SUSPENDED PARTICULATES IN MOLTEN METAL".

Applicant : LIMCA RESEARCH INCORPORATED, A COMPANY INCORPORATED IN MONTREAL, QUEBEC, CANADA, OF C/O BERGER, GOLFMAN, LEHRER AND WINSTON, SUITE 240, 1, WESTMOUNT SQUARE, MONTREAL, QUEBEC H3Z 2P9, CANADA.

Inventors : DONALD ALLAN DOUTRE AND IAN LAWRENCE RODERICK GUTHRIE.

Application for Patent No. 147/Del/1984 filed on 20th February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 claims

Apparatus for the detection and measurement in a molten metal sample of suspended particulars of greater than a predetermined size whose electrical conductivities differ from that of the suspending molten metal in a molten metal sample comprising :

a test vessel for receiving a molten metal sample, said vessel having electrically insulating wall means defining a passage of predetermined size therethrough,

a pair of electrodes disposed on opposite sides of the wall means to establish a current path between them through the molten metal of the sample and passing through the said passage,

means for passing a sample of molten metal through the passage, said means being connected to the test vessel,

means connected to said electrodes for passing an electric current between the two electrodes through the molten metal in the said current path at least while the molten metal sample is passing through the passage,

detector means connected to the two electrodes for detecting a change of voltage in the path resulting from the passage of said particulars through the passage, and

means for counting the number of said changes as representative of the number of said particulates, and measuring the sizes of the changes as representative of the size of the particulates causing the changes, said measuring and counting means being connected between said detector and the electrodes.

Compl. Specn. 31 pages. Drgs. 4 sheets.

CLASS : 148G. 160388

Int. Class : G03.b 27/00.

"PHOTOGRAPHIC FILM COPYING APPARATUS".

Applicant : FERRANTI PLC., OF BRIDGE HOUSE, PARK ROAD, GATLEY. CHEADLE, CHESHIRE, ENGLAND, A BRITISH COMPANY.

Inventors : IAN DOUGLAS GOOCH AND IAN GRAHAM THOM.

Application for Patent No. 195/Del/84 filed on 2nd March, 1984.

Convention date 11-3-83/8306841/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

6 Claims

Photographic film copying apparatus of the type having an exposure gate and spaced therefrom a drive sprocket provided with sprocket teeth for engaging in holes in contiguous strips of film which said sprocket pulls past said exposure gate, the profile of said sprocket teeth causing a longitudinal displacement between said film strips, characterised in that diversion means in the form of suction means is provided between said drive sprocket and said exposure gate in contact with said film strips as they are pulled by said drive sprocket, said suction means holding said film strips in contact therewith and positioning means connected to said suction means for moving said suction means perpendicularly to the plane of the direction of motion of said film strips thereby diverting the path of the lagging strip out of the plane of the path of the other strip by a distance sufficient to cause said lagging strip to be advanced relative to the other strip at said exposure gate by an amount equivalent to the amount of lag caused by the profile of the sprocket teeth.

Complete specification 9 pages. Drg. 1 sheet.

CLASS : 48 D_1, 70 A. 160389

Int. Class : H 01 b 17/00, 17/14, H 01 m 1/00.

"AN INSULATOR FOR USE IN ELECTROLYTIC CELLS".

Applicant : COMINCO LTD., A CORPORATION CONTINUED UNDER THE CANADA BUSINESS CORPORATIONS ACT OF 2230-200 GRANVILLE STREET, VANCOUVER, BRITISH COLUMBIA, V6C 2R2, CANADA.

Inventor : RONALD NORMAN HONEY, ROBERT ELWOOD MANWELL AND CLIFFORD JAMES KRAUSS.

Application for Patent No. 272/DEL/1984 filed on 27th March, 1984.

Convention Application No. 425172 dated 5th April, 1983.

Appropriate office for filing opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi-5.

11 Claims

An insulator for use in electrolytic cells for the support of a spooled electrode contact bar (43) comprising spools (41) and opposed frusto-conical portions (69), and head bars (64), each of said head bars (64) having one end (63) with an inverted V-shaped notch (66) in its underside (68) and having an opposite end (62), for alternatively supporting removable, alternating cathodes and anodes at one side of the cell on said contact bar (43) and on the other side of the cell on said insulator, characterized in that said insulator comprises

(a) an elongated body (10) having a longitudinal centre line (18), said body having a substantially flat bottom surface (12) for mounting the insulator on the top of cell walls and said body (10) having outwardly and downwardly sloping upper surfaces (14, 16) extending from said centre line (18) to the side edges (20, 22) of the body (10),

(b) a row (24, 26) of equi-spaced shoulders (30, 32) formed longitudinally on each said upper surface (14, 16) adjacent to the said centre line (18), each said row (24, 26) of shoulders (30, 32) having a transverse channel (34, 36) formed between each paid of adjacent shoulders for draining liquid towards said side edges (20, 22) of the body (10),

(c) a longitudinal V-shaped groove (40) formed between the two rows (24, 26) of said shoulders (30, 32) for supporting said spooled electrode contact bar (43) between said rows of shoulders (30, 32), the shoulders of each said rows being longitudinally offset relative to the shoulders of the opposite row whereby the channels (34, 36) formed between the adjacent shoulders of one row are in alignment with and about shoulders of the opposite row, and

(d) a cavity (50, 52) formed in each said upper surfaces (14, 16) opposite each of said shoulders (30, 32) between the shoulder and the respective edge (20, 22) of the body for receiving an insulating block (54, 56) therein,

whereby the electrode contact bar (43) supports said end (63) of the head bar (64) of a cathode or anode at one side of a cell and said blocks (54, 56) inserted in the cavities (50, 52) can support the opposite end (62) of said head bar (64) on the opposite side of the cell.

Complete specification 13 pages. Drgs. 2 sheets.

CLASS : 107 G 160390

Int. Class : F23n-1/00.

"APPARATUS FOR THE UNIFORM DISTRIBUTION OF FUEL TO A MULTI CYLINDER SPARK IGNITION ENGINE".

Applicant : SHIRLEY ALICE WISDOM, A CITIZEN OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND, OF 52 CORINTH ROAD, HOATHCOTE, NEW SOUTH WALES, AUSTRALIA.

Inventor : JAMES ROBERT WISDOM.

Application for Patent No. 393/DEL/1984 filed on 10th May 1984.

Convention date 19-5-1983/PF9422/83/(Australia).

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An apparatus for the uniform distribution of fuel to a multi-cylinder spark ignition engine comprising a fuel metering device arranged to deliver discrete metered quantities of fuel in accordance with the requirements of the cylinders of the engine, means defining a catchment chamber provided to receive each such quantity, a plurality of passages extending from said chamber, one for each cylinder of the engine, each said passage being connected through a conduit to the induction passage of one cylinder, means for admitting air or other gas under pressure to said passages to expel quantity of fuel from the chamber and means for directing the flow of gas from said chamber along each of said passages in turn whereby a metered quantity of fuel is delivered to each cylider in turn.

Complete Specification 9 pages Drawing 5 sheets

CLASS : 179 D. E. F. 160391

Int. Cl. B 65 d 55/02.

"CHILD RESISTANT CLOSURE FOR CONTAINERS".

Applicant : OWENS-ILLINOIS, INC., ONE SEGATE, TELEDO OHIO 43666, U.S.A. A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, U.S.A.

Inventors : 1. MAXIMILLIAN KUSZ. 2. WILLIAM E. FILLMORE.

Application for Patent No. 285/Mas/84 filed on 23rd April 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) The Patent Office, Madras Branch.

17 Claims

A child-resistant closure for containers having an exterior thread means on its finish portion comprising, an inner cap member having a top panel integrally formed with a depending skirt portion.

said depending skirt portion having thread means formed on the interior surface thereof for engagement with the finish portion of the container,

an outer member having a peripheral skirt portion surrounding the skirt portion of the inner cap member

interengaging means between said inner cap member and said outer closure member operable upon relative axial movement betwen said members to interengage said members such that rotation of said outer member will also rotate said inner member to disengage the threads of said inner member from the threads of a container.

and a tamper-indicating member comprising an annular ring having portions extending between the lower edge of the skirt portion of the outer closure member and a portion of the container and manually operable to normally prevent axial movement of the outer closure member.

Complete Specification 11 Pages Drang. 5 sheets

CLASS : 104 J 160392

Int. Cl. : B 29 h 9/00.

RUBBERISED SHEETS MADE FROM COCOUNT HUSK MATERIAL AND A PROCESS OF MANUFACTURING THE SAME.

Applicant and Inventors : (1) KOCHUZHATHIL MATHEW THOMAS AND (2) KOCHUZHATHIL THOMAS MATHEW BOTH OF 46 DACOSTA LAYOUT, COOKE TOWN, BANGALORE-560 084, KARNATAKA. INDIA, INDIAN NATIONALS.

Application No. 305/MAS/84 filed April 28, 1984.

Complete Specification left on 29th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

A process of manufacture of rubberised sheets made from coconut husk material comprising the steps of preparing a furnish and forming the same into mats of uniform thickness; pressing the mats with or without application of heat to yielf cured sheets; trimming the sheets to the desired sizes; and abrading the sides of the sheets, if necessary, to provide a smooth surface finish, characterised in that the said furnish is prepared by mixing coconut husk material with rubber latex and spraying thereon or mixing therewith an adhesive such as urea formaldehyde resin adhesive, polyvinyl acetate dispersion based adhesive, phenol formaldehyde adhesive and/or resorcinol-phenol formaldehyde adhesive.

Provisional Speen. 7 pages Drg. Nil.

Complete speen. 9 pages. Drg. Nil.

CLASS : 31 C, 68 D. 160393

Int. Cl. 01 C 7/10.

A VOLTAGE DEPENDENT NON-LINEAR RESISTOR ELEMENT AND METHOD OF MANUFACTURING THE SAME.

Applicant : W.S. INSULATORS OF INDIA LIMITED, AN INDIAN COMPANY, OF PORUR, MADRAS-602104, INDIA.

Inventor : V. SRINIVASAN.

Application No. 309/MAS/84 filed on 28th April 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

23 Claims

A voltage dependent non-linear resistor element comprising a shaped sintered body formed of a composite structure of zinc oxide grains of purity of about 99.8% said grains of zinc oxide being uniformly surrounded by a thin layer of additive oxide(s) of one or more element(s) such as herein described selected from groups 3, 4 and 5 of the Periodic Table and/or from the Transition elements, the relative mass content of the zinc oxide grains and the additive oxide(s) being within the range of 90–99.5 mole percent and 0.5-10 mole percent respectively, at least two surfaces of said shaped sintered body being provided with metallic electrodes, the thickness of the element determining its non-ohmic resistance and thereby its desired voltage rating.

Compl. speen. 12 pages. Drg. 1 sheet

CLASS : 68 D 160394

Int. Cl. : H 01 c 7/10.

"SURGE ARRESTERS."

Applicant : W.S. INSULATORS OF INDIA LIMITED, AN INDIAN COMPANY, OF PORUR, MADRAS-602104, INDIA.

Inventor : V. SRINIVASAN.

Application No. 310/Mas/84 filed on 28th April 1984.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Madras Branch.

14 Claims

A surge arrester comprising a predetermined number of voltage dependent non-linear resistor elements, connected to each other, each said resistor element being constituted by a shaped body made of a composite structure of zinc oxide grains of purity of about 99.8%, which are uniformly surrounded by thin layer of additive oxide(s) of one or more element(s) selected from groups 3, 4 and 5 of the periodic Table and/or from the transition elements, and said resistor elements being arranged, without any series of shunt gaps, in an insulating housing.

Compt. speen 14 pages. Drg. 4 sheets

CLASS : 90-I 160395

Int. Cl. : C 03 c 3/26, 25/02.

"A PROCESS FOR PRODUCING AN OPTICAL FIBER."

Applicant : SUMITOMO ELECTRIC INDUSTRIES, LTD. OF 15, KITAHAMA 5-CHOME, HIGASHI-KU, OSAKA, JAPAN, A JAPANESE COMPANY.

Inventors : GOTARO TANAKA KUNIO FUJIWARA YASUO MATSUDA.

Application No. 316/Mas/84 filed on 1st May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A process for producing an optical fiber, which comprises forming an inner portion of a quartz glass layer by using a fluorine containing gas such as hereinbefore described for a cladding containing a prescribed amount of fluorine around the periphery of a glass rod for a core to a prescribed thickness in the range of 0.1 to 10 times the core diameter forming an outer portion of a quartz glass layer by using a fluorine containing gas such as hereinbefore described for the said cladding around the periphery of the said inner portion while gradually decreasing the fluorine content by controlling the fluorine containing gas concentration of the fluorine containing quartz glass layer to 0.7% by weight or below relative to SiO in the outermost surface of the quartz glass layer, and drawing the resulting core-cladding structure in a drawing furnace so as to have a prescribed diameter in the range of 50μm to 200μm.

Compl. specn. 14 pages. Drg. 2 sheets

CLASS : 191 160396

Int. Cl. : B 41 j 5/06 & 5/28.

THREE LANGUAGES IN ONE TYPEWRITER

Applicant & Inventor : KUBERAPPA SON OF MAHARUDRAPPA ARKASALI, HINDU INHABITANT INDIAN NATIONAL, RESIDING OF ABBIGERI, TALUKA : RON. DISTRICT. DHARWAR, NOW AT BHAIRIDEVARKOPPA, TALUKA :HUBLI, DISTRICT; DHARWAR, KARNATAKA STATE.

Application No. 340/Mas/84 filed 8, 1984.

Complete Specification left on 9th October, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

A A three lanuages in one typewriter machine with type bars, manually or electrically operated comprising Segments (No. 1) means to place type bars in slots made in the segment No. 1 and the divisions of the link bars means to connect the type bars through link bars first part and sub-link bars through link bars second part; and the link bars first part plate means to place link bars first part through holes and link bars second part plate means to place link bars second part in slots alongwith first parts and second parts with layers to rest the link bars second part and the connected hook adjust bar means to connect the language intended for taking up and down the link bars second part as directed through the language connector keys and the releaser key means to disconnect the connections between the link bars first part and link bars second part before giving connection through the language connector by pushing the entire link bar second part plate and the tab puller and line space regulator (TPLSR) means to take back the tabulator by pressing the key bar through TPLSR toothed segment which is connected to the pinion which pinion is fixed permanently in a centre of the toothed main wheel connected to the tab puller toothed main wheel connected to the tab puller toothed rack fixed in the tabulator means to take back the tabulator and to change the line by moving the roller and the exhauster means to exhaust the force given to tabulator after reaching the space settler by disconnecting the tab puller toothed rack from the main toothed wheel and the shift toggle joint means for providing three position to type viz. without shift, with shift and with extra shift and the type founts of the type bars having three characters, means to type in three positions i.e. without shift and with extra shift.

Provisional specn. 7 pages. Drg. 4 sheets

Compl. specn. 11 pages. Drg. 4 sheets

CLASS : 146 D, 168 H, 90 1 160397

Int. Cl. : H 01 p 3/00.

A SINGLE-MODE OPTICAL WAVEGUIDE.

Applicants : CORNING GLASS WORKS, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A. OF CORNING, NEW YORK, N.Y. 14831, UNITED STATES OF AMERICA.

Inventors : VENKATA ADISESHAIAH BHAGAVATULA.

Application No. 350/Mas/84 filed on 14th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

A single-mode optical waveguide comprising a core of transparent material having a maximum refractive index n_1 and a radius a, and

a layer of transparent optical cladding material on the outer surface of said core, the refractive index n_2 of said cladding being less than n_1

said waveguide being characterized in that said core comprises a central portion surrounded by at least two concentric segments, said central portion and the innermost of said concentric segments being separated by a region of depressed refractive index and each two adjacent segments being separated by a region of depressed refractive index, the inner radius a_1 of the innermost of said regions of depressed refractive index being greater than zero and the maximum radius a_n of the outermost of said regions of depressed refractive index being less than a, and said cladding optionally comprising a region of depressed refractive index adjacent the outer surface of said core.

Compl. specn. 22 pages. Drg. 3 sheets

CLASS : 89 160398

Int. Cl. : B 23 p 5/00.

DIAMOND GAUGE.

Applicant : CENTENNIAL JEWELLERS, INC., CORPORATION OF THE STATE OF NEW YORK, U.S.A. OF 104, WEST 29TH STREET, NEW YORK, NEW YORK, U.S.A.

Inventor : SAUL M. FINKLER.

Application for Patent No. 354/Mas/84 filed on 16th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

A diamond gauge of the type having a handle section characterised by a stone-simulant extending therefore having a three dimensional stone simulant having a central axis and having sections corresponding to the culet, the girdle and the table of a cut diamond; and a handle connected to said section corresponding to the table of a cut diamond and extending in a direction parallel to said central axis.

Compl. specn. 16 pages. Drg. 3 sheets

CLASS : 50 D, 61 H, A 160399

Int. Cl. B 01 d 53/00, F 26 b 7/00.

A SYSTEM FOR DRYING OF MATERIALS.

Applicant & Inventor : MADHAVAN PARTHASARATHY 12, OLD TRUNK ROAD, PALLAVARAM, MADRAS-600 043.

Application No. 361/Mas/84 filed on 18th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A closed loop system for drying of materials comprising a condensor, a drying chamber and an evaporator, the condenser and the evaporator being part of a heat pump and an auxiliary heat exchanger, a carrier fluid circulating through the system, a feed back means for feeding back the fluid from the evaporator to the auxiliary heat exchanger, drain means arranged on the evaporator and the auxiliary heat exchanger and a blower for causing the carrier fluid to circulate through the system.

Compl. specn. 6 pages. Drg. 1 sheet

CLASS : 203 160400

Int. Cl. : B 65 h 35/00.

PLANETARY WIRE-FEEDING DEVICE.

Applicant : INSTITUTE PO TECHNICHESKA KIBERNETAKA I ROBOTIKA OF BLOCK 12, AKADEMIK BONCHEV STREET, SOFIA, BULGARIA, A BULGARIAN COMPANY.

Inventors : DAVID ALBERT SAMOKOVLIISKI, 2. GEORGI IVANOV GEORGIEV, 3. RUMEN PEYCHEV PEYCHEV, 4. SAMI SOLOMON LEVI, 5. LAZAR OGNYAMOV PETROV.

Application for Patent No. 382/Mas/84 filed on 25th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A planetry wire-feeding device, comprising a body with hollow threaded shank and grooves characterised in that there are diposed and fastened hingedly two two-arm levers, the short arms of which are in contact with the faces of pistons which carry wire-feeding rolls and arranged opposite one to another and radially to the axis of the electrode wire in a cylindrical hole in the body, the long arms of the two-arms levers being by means of guid volts in contact with a guiding cone, mounted axially movable onto the hollow threaded shank of the body and the hollow internal side of the guiding cone is in contact with the one end of a spiral spring, which embraces the hollow threaded shank of the body, wherein the other end of the spiral spring (9) is in contact with a device for calibrating the force of the spring, which represents a U-shaped cramp (10) mounted axially movable onto the hollow threaded shank (2) in grooves in the body (1) the faces of the U-shaped cramp (10) being in contact with the heads of two regulating screws (11), which are screwed on in the body (1) and the axes of which are parallel to the axis of the electrode-wire.

Compl. specn. 7 pages. Drg. 1 sheet

CLASS : 36 A, 160401

Int. Cl. : F 04 d, 29/40, 29/60.

IMPROVEMENT IN OR RELATING TO CENTRIFUGAL PUMP.

3—147 GI/87

Applicant : SALA INTERNATIONAL AB, OF P.O. BOX 302, S-733 00 SALA, SWEDEN, A SWEDISH JOINT STOCK COMPANY.

Inventor : BENGT OVE ERIKSSON.

Application for Patent No. 83/Del/83 filed on 11th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A centrifugal pump including a pump casing (5), a pump impeller (10) and pump frame (1), comprising a mounting base (20), a seat or seats (2, 3) for the bearing housing (14) of the pump shaft (9) and a mounting plate (4, 4') for the pump casing (5), the side of the pump casing (5) facing the mounting plate (4, 4') exhibiting an opening sufficiently big to permit the passage of the impeller, and said opening being covered by a separate wear plate (11) with a through hole for the pump shaft (9), and a shaft sealing device (6) adjacent the pump housing, wherein the shaft sealing device (6) is fitted in a machined hole (8, 8', 108) in the mounting plate (4, 4') from the side of said mounting plate facing the pump casing (5), the machined hole (8, 8', 108) comprising radial guide surfaces (29, 29', 129) defining the position of the sealing device (6) concentrically with the pump shaft (9) and an axial guide surface (30, 30', 130), defining the axial position of the shaft sealing device (6).

Compl. specn. 13 pages. Drg. 4 sheets

CLASS : 32F$_1$. 160402

Int. Class : C07d 39/00, 27/28.

"AN IMPROVED PROCESS FOR THE PREPARATION OF (±) RHAZIDINE HYDROCHLORIDE".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

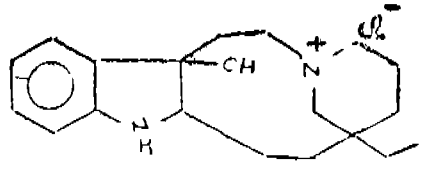
Inventors : VENKATACHALAM SESHA GIRI & SATYESH CHANDRA PAKRASHI.

Application for Patent No, 163/Del/83 filed on 14th March, 1983. Complete specification left on 2nd May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

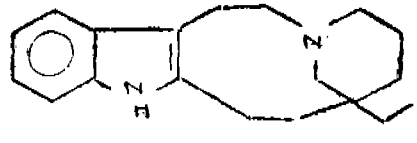
6 Claims

An improved process for the preparation of (±)-rhazidine hydrochloride of formula (III).

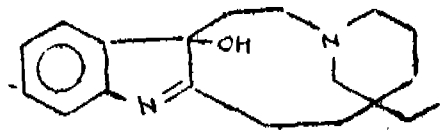


comprising subjecting (±)-quebrachamine of formula (I).

2



to oxidation with a solution of an organic peracid in an organic solvent such as herein described to form (±) rhazidigenine of formula (II)



and treating the reaction mixture containing said rhazidigenine with an excess of dry hydrogen chloride gas to obtain a precipitate of (±) rhazidigenine hydrochloride of formula (III).

(Provisional specification 4 pages).

Complete specification 6 pages. Drg. 1 sheet

CLASS : 162. 160403.

Int. Class : D06m 13/34.

"AN IMPROVED PROCESS FOR THE TREATMENT OF COIR/COIR PRODUCTS TO MAKE THEM FIRE/FLAME RETARDENT AND COIR/COIR PRODUCT SO TREATED".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELH-110001, INDIA. AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCETIES ACT (ACT XXI OF 1860).

Inventors : CHENNAKATTU KRISHNA SADASIVAN PILLAI, MAGALA ANJANAPPA VENKATASWAMY, KASTUR GUNBAPPA SATYANARAYANA & PRADEEP KUMAR ROHATGI.

Application for Patent No. 209/Del/83 filed on 31st March, 1983.

Complete specification left on 2nd May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Branch, New Delhi-5.

5 Claims

An improved process for the treatment of coir/coir products to make them fire/flame retardant comprising treating the coir/coir products with a mixture of a solution of urea and diammonium phosphate removing the excess solution drying and curing the treated coir/coir products.

(Provisional specification 9 pages).

(Complete specification 10 pages).

CLASS : 126 C. 160404

Int. Class : G 01b 7/00, 7/16.

"PROCESS FOR THE MANUFACTURE OF A FOIL TYPE RESISTANCE STRAIN GAUGE AND THE STRAIN GAUGE MANUFACURED THEREBY".

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAFI MARG, NEW DELH-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor(s) : BALEBAIL SRINIVASA DASANNACHARYA, KARANAM KRISHNAMURTHY & INDRA RAJAGOPALAN.

Application for Patent No. 461/DEL/83 filed on 6th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A process for the manufacture of foil type resistance strain gauge comprising surface conditioning one surface of a metal alloy foil by floating foil in a solution consisting of :

Ammonium persulphate=2.5 gms—15 gms.
Nitric Acid (cons)=10 ml—70 ml.
Ferric chloride=5 gms—20 gms.
Water=50 ml—400 ml.

coating the surface conditioned foil with a polymer insulation backing, coating the other surface of the foil photolithographically to form impression of desired strain gauge pattern consisting of atleast two tabs, atleast two protective strands and end loops to provide for a desired resistance range of 120 to 600 o'hms within a desired limits of gauge length and width, etching the patterned foil and trimming the resistance of the resultant strain gauge electrochemically to the desired resistance using a solution containing phosphoric acid and an alkyl alcohol of the type ROH wherein R has more than three carbon atoms in the alkyl chain.

(Complete specification 13 pages. Drg. 3 sheets)

CLASS : 12 (C+D), 136 E 160405

Int. Class : C21d—1/00; B29b—25/00 & B29d—5/00.

"APPARATUS FOR THE HEAT TREATMENT OF MATERIALS SUCH AS RUBBER-LIKE OR PLASTICS MATERIALS".

Applicant : BRITISH GAS CORPORATION AND RAPRA TECHNOLOGY LIMITED, FORMERLY RUBBER AND PLASTICS RESEARCH ASSOCIATION OF GREAT BRITAIN, BOTH BRITISH COMPANIES, OF RIVERMILL HOUSE, 152 GROSVENOR ROAD, LONDON, SW1V 3JF, ENGLAND, AND SHOWBURY, SHREWSBURY, SALOP SI4, 4NR ENGLAND, RESPECTIVELY.

Inventors : ROBERT WILLIAM COX, DEREX ARTHUR JONES, DAVID LANGLEY WALKER & DAVID HANDS.

Application for Patent No. 477/Del/1983 filed on 14th July, 1983.

Convention date 7-7-82/8220782/(Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

11 claims

An apparatus for the heat treatment of a material such as a rubber-like or plastics material comprising a metallic heat transfer assembly for transmitting heat either directly to said material or to a mould containing said material, the heat transfer assembly comprising a plurality of discrete segments joined together either permanently or in a separable manner, each said segment including a gas distribution passageway, said gas distribution passageways together defining a closed loop path for receiving and circulating around the heat transfer assembly a hot permanent gas, and one or more heat transfer passageways formed in the heat transfer assembly segments or between the heat transfer assembly segments and the mould containing said material, one end of the heat transfer passageways communicating with said closed loop path defined by the gas distribution passageways and the other end communicating with the atmosphere Via one or more exhaust outlets.

Complete specification 14 pages. Drg. 4 sheets

CLASS : 125B. 160406

Int. Class : B 67 c 3/00, G01 f 5/00.

"INSTALLATION FOR THE VOLUMETRIC PROPORTIONING OF A LIQUID".

Applicants : GIDEC S.A., A SWISS BODY CORPORATE OF PLACE BEL—AIR 6, 1260, NYON, SWITZERLAND.

Inventors : FREDERICH DIETRICH AND GEORGES CHAVAILLAZ.

Application for Patent No. 510/DEL/83 filed on 26th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 claims

Installation for the volumetric proportioning of a liquid, notably for preparing mixttures consisting of one or a plurality of liquid substances, which comprises a transitional container fed from a tank containing the liquid to be proportioned, a conduit for transferring the liquid to a receiving container, said conduit being connected at one end to an orifice formed the bottom of said transitional container, and provided at its free end or at an intermediate point with an overpressure valve with a double-acting cylinder controlling a piston adapted to be introduced into said orifice in the bottom of said transitional container at said one end of the conduit so as to be adapted to slide therein in fluid-tight relationship in order to extract through said valve a volume of liquid equal to the volume of said piston or to the volume of the conduit section through which said piston has travelled.

(Complete specification 7 pages. Drg. 1 sheet)

CLASS : 55D$_{11}$ & 8$_{9}$ B$_{8}$ 160407

Int. Class : A01—11/00, A23d—1/900.

"A PROCESS FOR PREPARING A COMPOSITION FOR THE ANTIMICROBIAL TREATMENT OF FOODSTUFFS PARTICULARLY DEEP-FREEZE DESTINED FOODSTUFFS".

Applicant : FREIMUT RIEMER, OF HOFGENSFEG 8, D-5135 SELFKANT-TUDDERN, WEST GERMANY, A GERMAN CITIZEN.

Inventor : FREIMUT RIEMER.

Application for Patent No. 536/Del/1983 filed on 4th August, 1983.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

11 claims

A process for the preparation of a composition for antimicrobial treatment of foodstuffs, particularly deer freez destined foodstuffs of the kind such as herein described comprising mixing a quarternary onium compound with conventional isothiazolinone compounds.

(Complete specification 12 pages. Drg. 1 sheet)

CLASS 101 F. 160408

Int Class : E02b 3/00.

"FLUID DYNAMIC EROSION CONTROL UNIT".

Applicant : JOSEPH MCCAMBRIDGE, A US, CITIZEN OF 12 WATSON LANE, SETAUKET, NEW YORK, U.S.A.

Inventor : JOSEPH MCCAMBRIDGE.

Application for Patent No. 578/DEL/83 filed on 24th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rulese, 1972) Patent Office Branch, New Delhi-110005.

18 claims

A fluid dynamic erosion control unit comprising a hollow submersible body having a shell, means for regulating the buoyancy of said body, means for rotatably positioning said body in submerged condition for rotation about an axis, a plurality of arms extending laterally of said body, a paddle-like blade on each of said arms, each of said blades having an effective area defined by the area of vertical projection of the blade means for reducing the effective area of said blades when moving against a flow of water past said unit, whereby flow of water past said unit produces rotation of said unit by exerting a greater force on blades of larger effective area when moving in the direction of water flow than on blades of reduced effective area when moving in a direction against the flow of water.

(Complete specification 19 pages. Drg. 3 sheets)

CLASS : 40 E. 160409

Int. Cl. : B 0 I d, 47/02 & B 0 I j, 1/00.

"A GAS-LIQUID CONTACT APPARATUS".

Applicant : CHEM-PRO CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW JERSEY, U.S.A., OF 27 DANIEL ROAD, FAIRFIELD, NEW JERSEY 07007, U.S.A.

Inventor : KENNETH CHARLES SCHIFFTNER.

Application for Patent No. 643/Del/83 filed on 19th September, 1983.

Convention date 22nd June, 1983 [43907 Canada].

Appropriate office for filing opposition proceedings (Rule 4, Patents Rule 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A gas-liquid contact apparatus consisting of one or more moudules, each module comprising

(a) a housing member including an inlet and outlet,

(b) interconnecting ductwork between said inlet and outlet,

(c) dispensing means located on said housing for dispensing a selected flow rate (L) of liquid,

(d) at least one grid member suspended within said ductwork, the grid member disposed perpendicular to the direction of the flow of gas at said grid member:

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characterised in that said grid member is catenary shaped, said grid member having a periagee depth, dc, determined by the equation: dc = Pvc + HSL + HDL + d + , where Pvc is the velocity pressure of the gas at the periagee, HSL is the static head of the dispensed liquid, HDL is the dynamic head of the dispensed liquid and d + is the additional depth to create an energy imbalance in favour of the dispensed liquid and said grid member has a grid open area of between 50 to 80% of the total grid area.

Compl Specn. 21 pages. Drg. 4 Sheets.

CLASS : 31 B, 129 G. 160410

Int. Cl. : H01f—17/04, B26f—1/38.

"AN AUTOMATIC SHEET METAL CUTTING MACHINE".

Applicant : ALSTHOM-ATLANTIQUE, A FRENCH BODY CORPORATE, OF 38, AVENUE KLEBER 75784 PARIS, CEDEX 16, FRANCE.

Inventors : GERAD MESSE, MICHEL FAURE AND MARCEL DUCOMBS.

Application for Patent No. 908/DEL/1984 filed on 29th November, 1984.

Divisional to Application No. 293/DEL/1981 filed on 11th May, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-5.

2 Claims

An automatic sheet metal cutting machine comprising a means for continuous supplying metal strip in adjustable lengths and at will, a cutting means (20, 21) interposed between said means for continuously supplying metal strips and a means for receiving the laminations (23) cut from the metal strip, characterised in that said means for receiving laminations (23) includes a swivelling plate (25) which is moved to an angle of at will about a pin (26) perpendicular to the direction of movement (27) of the laminations, a means for lowering (30) and a means for moving (31) the said receiving means (23) downstream relative to the direction of movement (27) of the laminations.

Compl. Specn. 11 pages. Drg. 4 sheets.

CLASS : 39 K & 40 A1 160411

Int. Cl. : C 01 b 25/00.

PROCESS AND APPARATUS FOR MAKING PHOSPHORUS PENTOXIDE WITH UTILIZATION OF REACTION HEAT.

Applicant : HOECHST AKTIENGESELLSCHAFT, D 6230 Frankfurt/Main 80 Federal Republic of Germany.

Inventors : 1. Bernhard Kuxdorf (2) Peter Luhr (3) Hugo Werner (4) Ursus Thummler and (5) Friedrich-Wilhelm Dorn.

Application No. 191/MAS/84 filed March 23, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

13 Claims

Process for making phosphorus pentoxide by subjecting elemental yellow phosphorus to combustion with dried air inside a combustion chamber with the utilization of the reaction heat which comprises : effecting the combustion inside a combustion chamber of which the walls are arranged so as to form a cooling system with cavities therein; circulating a liquid/steam-mixture as a heat carrier abstracting the reaction heat through the cooling system, the liquid or liquid/steam-mixture having a temperature of 100 to 600°C being preferably so circulated under a pressure of 1 to 300 bars; continuously taking from the cooling system steam which is being formed therein; introducing an equivalent proportion of fresh liquid into the cooling system; condensing hot P_2O_5 issuing in vapour form from the combustion chamber, the combustion chamber being operated under a heating surface load of 50 to 150 Kw/m and under a heating volume load of 300 to 600 Kw/m.

Apparatus for carrying out the process as claimed in any one of claims 1 to 4 comprised of a combustion chamber made of stainless steel, arranged in upright postion and presenting a height/diameter-ratio of 2.5 : 1 to 5 : 1; said combustion chamber being gastightly closed at its upper end by means of a circular covering plate and at its lower end by means of a circular base plate, and having its walls arranged so as to form a colling system with cavities therein; said cavities being connected to a circular upper collecting tube and to a circular lower collecting tube, respectively, arranged in horizontal position; a steam separating means being connected by a conduit system to said upper collecting tube and to said lowered collecting tube, respectively; said steam separating means being provided with an upper hot steam outlet and being penetrated by a lower fresh water feed pipe; said covering plate being provided with a phosphorus pentoxide outlet; and said base plate being penetrated by 1 to 10 burners provided with a phosphorus feed line and a dried air feed line, respectively.

Complete Specn. 14 pages. Drg. 1 sheet

CLASS : 85 J & 88 C. 160412

Int. Cl. : F 23 d 1/00.

METHOD AND APPARATUS FOR CONVERSION OF WASTE MATERIAL TO STBLE FINAL PRODUCTS.

Applicant: SKF STEEL ENGINEERING AKTIEBOLAG of PO Box 202, S-81300 HOFORS, Sweeden, a Swedish Company.

Inventors : 1. Seven Santen 2. Jan Thornblom.

Application No. 217/MAS/84 filed on 30th March 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

20 Claims

A method of making stable final products such as CO_2, H_2O and HCL, from waste material at least partially comprising thermally disintegratable chemical substances comprising the steps of :

(a) bringing such maste material as may be present in solid form into feedable form by dissolving, suspending or crushing such material :

(b) at least partially disintegrating the waste material in a plasma gas of high temperature generated in a plasma generator by introducing the plasma gas, with at least one of the waste materials and the disintegration products thereof, into a pre-action chamber, and subjecting said plasma gas and at least one of said waste material and disintegration products to intense turbulence therein;

(c) thereafter feeding the at least partially disintegrated waste material in feedable form together with an oxygen-containing gas into a reaction zone heated to at least 2000°C, said reaction zone consisting of a cavity in a gas-permeable carbonaceous filling material in piece form arranged in a reaction chamber, said cavity being formed by directing the plasma jet from the plasma generator towards and projecting into said filling material in the reaction chmber.

(d) in said reaction zone maintaining the oxygen potential such that substantially completely all the at least partially disintegrated waste material is converted into stable final products;

(e) withdrawing the stable final products from the reaction zone by permitting gaseous products to flow upwardly through the gas-permeable filling material and molten or solid products to fall into the bottom of the reaction chamber; and

(f) binding substantially all of such chlorine and hydrogen cloride as may be contained in said gaseous products by rapid cooling and washing.

(Complete Specification 24 pages) (Drg. 1 sheet)

CLASS : 129 G. 160413

Int. Cl. : D 21 b 5/00.

"DEVICE FOR APPLYING SURFACE PRESSURE TO ADVANCINE WORKPIECES."

Applicant : "THEODOR HYMEN KG. of Theodor—Hymen—Strasse 3, 4800 Bielefeld 1, Federal Republic of Germany.

Inventor : "WERNER PANKOKE".

Application for Patent No. 219/Mas/84 filed on 30th March 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

A device for applying surface pressure to workpieces advancing on at least one movable compression belt, means for forcing the workpieces against the belt including a pressure chamber adjacent to the belt and receptive of a pressure chamber medium and a continuous sealing strip between the pressure chamber and belt for sealing off the pressure chamber and means for attaching the strip to the pressure chamber, characterised in that the means for attaching the sealing strip to the pressure chamber comprises a diaphragm, means for attaching the sealing strip to one surface of the diaphragm a compression plate and means for connecting the edge sof the diaphragm to the compression plate for sealing off the pressure medium to form and additional elastic seal, with the surface of the diaphragm facing away from the sealing strip being subjected to the pressure medium.

Complete Specification 12 pages. Drgs. 2 sheet

CLASS : 179 B. 160414

Int. Cl. : B 65 b 65/00, A 23 l 3/00.

"AN APPARATUS FOR STERILISING, PASTEURISING OR BLANCHING A FOODSTUFF IN A CONTAINER.

Applicant : SOCIETE DES PRODUITS NESTLE S.A., P.O. Box 353, 1800 VEVEY, Switzerland, a company incorporated in Switzerland.

Inventor : ALBERT CHARLES HERSOM, JOHN EDWARD BRITTAIN. KENNETH WILLIAM DRIGHT.

Application No. 230/Mas/84, filed on 2nd April 1984.

Division of Application No. 1206/Cal/1981, (156284) filed on 29-10-1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

19 Claims

An apparatus for sterilizing, pasteuring or blanching a foodstuff in a container which is to be hermetically sealed wherein it comprises means for supporting a container, and extension piece adapted to temporarily extend the container, means for introducing foodstuff so that it fills the container and at least part of the extension pieces, a closing member adapted to temporarily fit the etxended container to form a closed assembly provided with an outlet for the escape of air, means for purging steam through the contents therein until they have shrunk to such an extent that the foodstuff in he extension piece has subsided into the container, and means for separating the container, extension piece and closing member from each other.

(Complete Specification 16 Pages) Drawing 6 Sheets)

CLASS : 32 F 2 b, 55 E 160415

Int. Cl. : A 61 k 27/00.

PROCESS FOR PREPARING A SYNERGISTIC PHARMACEUTICAL COMPOSITION OF N-(1-ETHYL-2-PYRROLIDINYL-METHYL)-2-METHOXY 5-SULFAMOYL BENZAMIDE.

Applicant : SOCIETE ETUDES SCIENTIFIQUES ET INDUSTRIELLES DE L'ILE-DE-FRANCE OF 46, BOULEVARD DE LATOUR-MAUBOURG-75340 PARIS CEDEX 07 (FRANCE), ORGANISED UNDER THE LAWS OF FRANCE.

Inventor : GUY PITEL.

Application No. 242/MAS/84 filed on 6th April 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

2 Claims

Process for preparing a synergistic pharmaceutical composition having the following liberation kinetics of N-(1-ethyl 2-pyrrolidinyl-methyl) 2-methoxy 5-sulfamoyl benzamide in artificial gastric and intestinal mediums :

— after 15 minutes, 35 to 50% in a medium with a PH value of 1.3,

— after 30 minutes, 60 to 75% in a medium with a pH value of 1.3,

— after 60 minutes, 80 to 95% in a medium with a pH value of 4.5,

— after 2 hours, more than 90% in a medium with a pH value of 6.9,

the process comprising the steps of :

— preparing natural grains, representing 10-20% of the total weight, by mixing and granulating about 75% by weight of saccharose and 25% by weight of starch,

— spraying an alcoholic polyvinylpyrrolidone solution of the benzamine in a turbine, so that the layer of active principle represents 70-75% of the total weight,

— drying and sifting the resulting microgranules,

— spraying an alcoholic solution of a mixture of methacrylic polymers comprising about 4 parts by weight of a copolymer of methacrylic acid and methyl methacrylate and 1 part by weight of a copolymer of N, N, N-trimethyl 2-(2-methyl 1-oxo 2-propenyl)-oxy) ethanaminium chloride, ethyl acrylate and methyl methacrylate,

— adding talc and drying in an oven at 37° C,

— spraying alcoholic solution of a copolymer of N, N, N-trimethyl 2-(2-methyl 1-oxo 2-propenyl)-oxy) ethanaminium chloride, ethyl acrylate and methyl methacrylate to form the outer layer.

Compl. speen. 10 pages. Drg. 1 sheet

CLASS : 32 C 160416

Int. Cl. : C 07 c 103/52.

METHOD FOR PRODUCING A SELECTED POLYPEPTIDE.

Applicant : THE TAXES A & M UNIVERSITY SYSTEM, DULY ESTABLISHED ACCORDING TO THE CONSTITUTION OF THE STATE OF TEXAS, HAVING A PRINCIPAL PLACE OF BUSINESS AT COLLEGE STATION, TEXAS 77843 UNITED STATES OF AMERICA.

Inventors : GALE E. SMITH. 2. MAX D. SUMMERS.

Application No. 376/MAS/84 filed 24th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

4 Claims

A method for producing a selected polypeptide such as herein described which comprises infecting a susceptible host insect cell with a recombinant baculovirus expression vector such as herein described wherein expression vector is a recombinant baculovirus genome comprising at least one selected gene or portion thereof being under the transcriptional control

of a baculovirus promoter or its own promoter allowing the incubation to proceed till the required concentration of the polypeptide is achieved which is recovered thereafter by known means.

Compl. specn. 50 pages. Drg. 6 sheets

CLASS : 182 C 160417

Int. Cl. : C 13 f 1/02.

PROCESS AND APPARATUS FOR THE CONTINUOUS PRODUCTION OF SUGAR CRYSTALS FROM SUGAR JUICES.

Applicant : FIVES-CAIL BABCOCK, OF 7 RUE MONTALIVET 75383 PARIS CEDEX 08, FRANCE, A FRENCH COMPANY.

Inventor : MONSIEUR PAUL CREDOZ.

Application No. 436/MAS/84 filed on June 14, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

17 Claims

A process for the continuous production of sugar crystals from sugar juices by vacuum evaporation comprising the steps of concentrating a minor fraction containing not more than 20% of the total juice to bring it to a state of over-saturation, adding seeding crystals to the over-saturated juice, circulating this mixture of concentrated juice and crystals in a closed container for a period of time lying between 3 and 15 minutes, introducing said mixture as a seeding magma into the first one of a series of cells communicating with one another, passing the said mixture successively through all the cells, adding the remaining fraction of the slice to the said mixture in the cells and heating the said mixture so as to bring about the evaporation of a part of the juice and the crystallisation of sugar.

Compl. specn. 17 pages. Drg. 1 sheet

CLASS : 155 F 2 160418

Int. Cl. : D 06 j 3/00.

"PROCESS FOR MAKING MICRO-ORGANISM RESISTANT ORGANIC OR INORGANIC SUBSTRATES".

Applicant : CIBA-GEIGY AG, KLYBECKSTRASSE 141, 4002 BASLE, SWITZERLAND, A SWISS CORPORATION.

Inventors : 1. GERD HOLZLE, 2. GERHARD REINERT 3. RUDOLF POLONY.

Application for Patent No. 523/Mas/84 filed on 19th July 1984.

Division of Application No. 978/Cal/81, filed on 31st August 1981. (155696).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

1 Claim

A process for making micro-organism resistant organic or inorganic sustrates comprising treating the substrates with sulfomated zinc or aluminium phthalocyanines or mixtures thereof such as herein described, the said phthalocyanies being substituted with halogens or pseudo-halogens, in the presence of water and under irradiation with light.

Compl. specn. 14 pages. Drg. 1 sheet

CLASS : 55 E 4, 83 A 160419

Int. Cl. : A 231 1/00.

A PROCESS FOR PRODUCING A FOOD PRODUCT EFFECTIVE IN THE TREATMENT OF LEPROSY.

Applicant : SOCIETE DES PRODUITS NESTLES A.

Inventors : JEAN MAURON LAZLO MESTER DE PARAJD.

Application No. 979/MAS/84 filed on 12th December 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

5 Claims

A process for producing a food product effective in the treatment of leprosy, comprising dry-mixing known proteins of lactic or vegetable origin, glucose or a carbohydrate which serves as a source of glucose, L-tryptophan and optionally flavouring and sweetening agents and adding to the resulting mixture lipids in the liquid state, said lipids comprising, by weight of total lipids, 0 to 60% vegetable oil and 40 to 100% known medium chain triglycerides, so as to obtain a product contaianing, by weight of dry matter : from 20 to 45% of proteins, from 1 to 3% of free L-tryptophan, from 5 to 35% of lipids, from 30 to 65% of carbohydrates and from 0 to 5% of flavouring and sweetening agents.

Compl. specn. 19 pages.

CLASS 17 A3 160420.

Int. Cl. : A 23 I 1/02.

A METHOD OF PREPARING NON-ALCOHOLIC BEVERAGES LIKE SYRUP FROM CASHEW APPLE JUICE.

Applicants : (1) AUGUSTIN ANTONY, COLLEGE OF HORTICULTURE, VELLANIKKARA, KERALA. (2) KERALA AGRICULTURAL UNIVERSITY, MAIN CAMPUS, VELLANIKKARA, TRICHUR, PIN-680654, KERALA.

Invntor : AUGUSTIN ANTONY.

Application No. 152/MAS/85 filed on February 21, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

12 Claims

A method of preparing non-alcoholic beverages like syrup, which comprises extracting juice from cashew apple, straining the juice, clarifying the strained juice by mixing it with a clarifying agent such as herein described, adding sugar, preservative such as herein described and citric acid to the resultant admixture and stirring the resultant admixture which is then allowed to keep overnight, and thereafter isolating in a conventional manner the clear syrup formed.

Compl. Specn. 7 pages. No Drawing.

CLASS : 55 D 2. 160421.

Int. Cl. : 01 n 9/02.

PROCESS FOR PREPARING SYNERGISTIC HERBICIDAL COMPOSITIONS.

Applicant : STAUFFER CHEMICAL COMPANY, OF WESTPORT, CANNECTICUT, U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA.

Inventor : BARELD EGGE CROENWOLD. 2. FERNANDO PEREIRO.

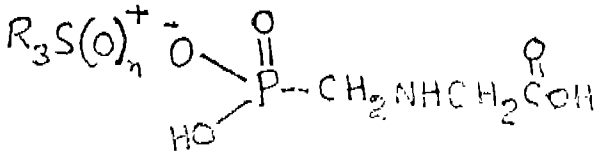
Application No. 165/MAS/85. filed on 2nd March, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

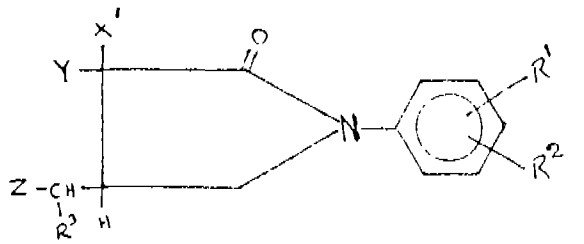
4 Claims

A process for preparing synergistic herbicidal composition comprising admixing,

(a) A herbicidally effective amount of a trialkylsulfonium salt of N-phosphonomethlglycine having the formula I shown in the accompanying drawing in which R is C_1-C_3 alkyl and n is O, and



Formula I



Formula II

(b) an herbicidally effective amount of a pyrrolidene compound of the formula II shown in the drawing in which X' is hydrogen, chlorine or bromine;

Y is hydrogen, chlorine or bromine;

Z is chlorine or bromine;

R^1 is hydrogen, C_1-C_4 alkyl, acetyl, chlorine, bromine, fluorine, iodine, trifuloromethyl, nitro, cyano, alkoxy, alkylthio, alkylsulfenyl, alkylsulfenyl, trifluoromethylthio, trifluoromethulsulfenyl, trifluoromethylsulfonyl, pentafluoropropriene-mide or 3-methyluriedo;

R^2 is hydrogen, C_1-C_4 alkyl, chlorine or trifluoromethyl; and R^8 is C_1-C_4, alkyl or hydrogen;

optionally in the presence of an inert diluent carrier in a pyrrolidone : N-phosphonomethylglycine weight ratio of from 1 : 6 to 4 : 1.

Compl. Specn. 15 pages. Drgs. 1 Sheet.

CLASS : 39 G 160422

Int. Cl. : C 01 g 3/04.

A PROCESS FOR THE MANUFACTURE OF CUPROUS CHLORIDE.

Applicant : KANNIAH NAIDU GOPALA KRISHNA MOORTHY OF RESEARCH DEVELOPMENT CENTRE, SHRI RAM FIBRES LIMITED, MANALI, MADRAS-600 068, TAMIL NADU, INDIA, INDIAN NATIONAL (2) THIRUNAKESWARAM KRISHNAMOORTHY USHARANI OF RESEARCH & DEVELOPMENT CENTRE, SHRI RAM FIBRES LIMITED, MANALI, MADRAS-600 068, TAMIL NADU, INDIA, INDIAN NATIONAL (3) SHRI RAM FIBRES LIMITED, HAVING ITS REGISTERED OFFICE AT HEMKUT HOUSE, 6 RAHENDRA PLACE, PUSHA ROAD, NEW DELHI-110-008, INDIA, AN INDIAN COMPANY.

Inventors : 1. KANNIAH NAIDU GOPALA KRISHNA MOORTHY, 2. THIRUNAKESWARAM KRISHNAMOORTHY USHARANI.

Application for Patent No. 184/Mas/83 filed on 6th September, 1983.

Complete Specification left on 6th December, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

A process for the manufacture of cuprous chloride comprising the steps of adding hydrochloric acid and nitric acid to copper scrap and allowing the reaction to proceed until the resulting nitrogen dioxide subsides; repeating the procedure after a second addition of hydrochloric acid and nitric acid, before admixing demineralised water characterised by gradually raising the temperature to boiling point and maintaining it thereat for 3 hours; discharging the resulting liquid through a filter into a container of demineralised water, wherein cuprous chloride is precipitated as white crystals, the supernatant blue cupric chloride solution being decanted into a second container, before transferring the cuprous chloride crystals and mother liquor into a third container; and separating the cuprous chloride from its mother liquor under vacuum before washing with hydrochloric acid and acetone and drying the same at 90° ±5°C for 1½ hours, the ratio of the reactants being maintained at 1 mole copper, 0.5 mole nitric acid, 2 mole hydrochloric acid and 295 moles water.

Provisional Specification 5 pages.

Compl. Specn. 7 pages.

CLASS : 154-D G. 160423.

Int. Cl. B 41 1 13/00.

A CYCLOSTYLING MACHINE.

Applicants & Inventor : SENGODAN KANDASAMI, "MALAR NILAYAM", A-18 ASHOK NAGR, TIRUPTTUR (NA) 635 601, TAMIL NADU, INDIA INDIAN NATIONAL.

Application No. 211/MAS/83 filed on 21st October, 1983.

Complete Specification left on 19th January 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

A cyclostyling machine, comprising a paper printing assembly receiving paper from a paper feed tray assembly, the said printing assembly comprising upper and lower cylinders with an intermediate waver roller assembly and a pressure roller assembly disposed below the lower cylinder, the said waver roller assembly having two waver rollers controlled by two pivoted spring-loaded holders urging the said rollers against the said cylinders characterised by at least one of the said holders being provided with a release arm located in a L-shaped guide slot, whereby the said release arm is lockable in the extremity of the guide slot corresponding to the shorter limb of the said slot, to move the waver rollers away from the said cylinders; and a single spring-loaded rod for the pressure roller assembly to bring the pressure roller into, or out of contact with, the lower cylinder.

Prov. Specn. 3 pages. Drgs. 1 sheet.

Compl. Specn. 7 pages. Drgs. 2 sheets.

CLASS : 5E. 160424.

Int. Cl. : A 01 c 7/00.

A DEVICE FOR PLANTING SEED OR GRAIN AND/OR THE LIKE.

Applicants & Inventors : BOOPATHY RANGANATHAM OF SRI RANGA FURNISHING MART (OPP. POLICE STATION), BANGALORE MAIN ROAD, SUNGUVAR CHATRAM, SRI PERUMANDUR TALUK, TAMIL NADU, INDIA, INDIAN NATIONAL.

Application No. 212/MAS/83 filed on 24th October, 1983.

Complete Specification left on 2nd June 1984.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

9 Claims

A device for planting seed or grain and/or the like comprising one or more troughs for containing material such as seed, grain and manure, each trough having an inlet for feeding the material thereinto and one or more outlets at its base for discharging the material thereat; a framework on wheels for mounting the said trough or troughs, the framework being provided with one or more rakes equal to the number of the outlets of the said trough or troughs, for furrowing the soil; one or more rollers disposed close to and below the said trough or troughs, each roller having a toothed or slotted portion aligned with the said outlet or each of the outlets; one or more sets of conduits, disposed close to and below the roller or rollers and aligned with the toothed or slotted portions and a drive coupling the roller or rollers to at least one of the wheels, whereby as the roller or rollers are rotatably driven by wheeling the framework, the material from the trough or troughs is picked up by the teeth or slots in the roller or rollers and transferred down to the conduits to be discharged therefrom into the furrows produced by the rakes in the soil.

Prov. Specn. 7 pages. Drgs. 4 sheets.

Compl Specn. 12 pages. Drgs. 1 sheet.

CLASS : 206 A, C. 160425.

Int. Cl. H 01 q 9/44.

A HORIZONTALLY POLARISED OMNIDIRECTIONAL ANTENNA.

Applicant & Inventor : THIRUVENKATA KRISHNAN, 234 AVVAI SHANMUGAM ROAD, MADRAS-600 086, TAMIL NADU, INDIA, INDIAN NATIONAL.

Application No. 243/MAS/83 filed on 26th December, 1983.

Complete Specification left on 26th March, 1985.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

2 Claims

A horizontally polarised omnidirectional antenna comprising four pair of crossed dipoles forming a broadside array, the said dipoles being energised by a cable feeder system incorporating a plurality of matching transformers, the array spacing being 3/4 wavelength, the said antenna having omnidirectionality in the plane normal to its axis as a result of quadrature currents in the crossed dipole pairs.

Prov. Specn. 4 pages. Drgs. 5 sheets.

Compl. Specn. 6 pages.

CLASS : 158 D 160426

Int. Cl. : B 61 f 13/00.

"WATER TRAIN".

Applicant & Inventor : KURIAN GEORGE, OF THEKKINKADU BUNGLOW, AREEPLACHI, P.O. (VIA) PUNALUR, KERALA, AN INDIAN CITIZEN.

Application for Patent No. 7/Mas/84 filed on 6th January 1984.

Complete specification left on 27th August 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

12 Claims

Water train comprises a pilot bogies and a series of trailer bogies which are connected serially using connectors wherein the said pilot bogie contains a prime mover and the front portion of the said pilot bogie is having an arm to one side with two wheels at its end which moves along the two sides of a rail, an arm with two wheels are provides in the rear side of the pilot bogie, wherein the inner wheel is the driving wheel which is connected to the engine and the outer wheel is for guiding the bogie in position and for providing sufficient pressure and so sufficient friction between the driving wheel and rail, the trailer bogies are having an arm fitted in the rear side with two idle wheels at its end which freely rotate on the said rail when the same touches the rail due to any oscillation caused by wind or wave or when the train takes a curve.

Provisional specification 7 pages Drg. 1 sheet

Compl. specn. 11 pages. Drg. 1 sheet

CLASS : 205 G [LVI] 160427

Int. Cl. : B 60 c 9/00.

A REINFORCEMENT PLY INTENDED TO STIFFEN ONE OR MORE PARTS OF TIRES.

Applicant : MICHELIN AND CIE (COMPAGNIE GENERALE DES ESTABLISSSEMENTS MICHELIN), A FRENCH COMPANY OF 63040 CLERMONT-FERRAND CEDEX, FRANCE.

Inventor : MICHEL MERLE.

Application No. 126/MAS/84, filed 23rd February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

23 Claims

A reinforcement ply intended to stiffen one or more parts of tires characterised by the fact that said reinforcement ply formed, at least in part, by a fabric having the following properties :

(a) the fabric comprisres a three-dimensional body and reinforcement threads arranged in the body and held by the body;

(b) practically all the voids in the fabric are capable of being impregnated with at least one material which forms part of the structure of the tire;

(c) the body is capable of retaining a three-dimensional structure even if the reinforcement threads are removed from the fabric;

(d) the body comprises warp threads, each of these warp threads undulating practically in a plane perpendicular to the principal faces of the fabric and being alternately tangent to one of these faces and then to the other faces;

(e) the body comprises woof threads arranged between the warp threads practically in at least four planes within the thickness of the fabric, these planes being parallel to the principal faces of the fabric;

(f) the reinforcement threads are arranged practically in one plane, the reinforcement threads having the same orientation, the planes of the reinforcement threads being parallel to the planes of the woof threads;

(g) the reinforcement threads are without contact with at least one of the principal faces of the fabric;

(h) the reinforcement threads are separated from each other by the threads of the body in such a manner that the reinforcement threads are without contact with each other;

(i) the threads of the body have a cross-section whose surface has an area at most equal to one-quarter of the area of the surface of the cross-section of the reinforcement threads;

(j) the ratio between the rigidity of the fabric measure according to the orientation of the reinforcement threads and the rigidity of the body by itself measured in this same orientation is at least equal to 10, these rigidity measurements being carried out for a relative elongation of 2%;

(k) the porosity of the fabric is at least equal to 50%;

(l) the permeability of the fabric is at least equal to $10^{-11}m2$, Pa^{-1} s^{1} for a fluid whose viscosity is 1 Pa.s.

Compl. specn. 29 pages. Drg. 3 sheets

CLASS : 72 B. 160428

Int. Cl. : C 06 b 1/00.

"A WATER-IN-OIL EMULSION BLASTING AGENT".

Applicant : IRECO CHEMICALS, A CORPORATION OF THE STATE OF UTAH OF SEVENTH FLOOR, KENNECOTT BUILDING, SALT LAKE CITY, UTAH, 84133, U.S.A.

Inventors : HARVEY A. JESSOP, ALBERT G. FUNK.

Application No. 146/MAS/84 filed 9th March, 1984.

Appropriate office for opposition preceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

A water-in-oil emulsion blasting agent comprising a known water-immiscible liquid organic fuel as a continuous phase in an amount of from 3 % to 12% by weight based on the total composition; and a known emulsified aqueous inorganic oxidiser salt solution in water in an amount of from 4 to 10% as a discontinuous phase, a known emulsifier in an amount of from 0.1% to 5%; optionally a density reducing agent in an amount sufficient to reduce the density of the blasting agent to within the range from 1.0 to 1.5 g/cc; characterized in that the emulsified inorganic oxidiser solution contains of from 40% to 70% particulate Sodium nitrate of the toal composition as a primary oxidiser and 10% to 40% a secondary oxidiser salt such as herein described.

Compl. Specn 10 pages. Drg. Nil.

CLASS : 25 A & 27 B. 160429

Int. Cl. : E 04 c 1/00.

"FIT-IN BLOCK FOR THE CONSTRUCTION OF BUILDINGS".

Applicant & Inventor : JOSE COELHO DOS SANTOS, OF ESTRADA DOS ARNEIROS, 46-1 : DTO., LISBON PORTUGAL, OF PORTUGUESE NATIONALITY.

Application No. 172/MAS/84 filed March 17, 1984.

Division of Application No. 1015/CAL/80 dated 5th September, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

A fit-in block for the construction of buildings for use in association with the blocks are claimed in Patent No. 154189 characterised in that it is formed by two vertiacl rectangular rims constituting respectively the front and rear faces of the block, which are joined at the bottom by a transversal strip situated at a distance of 5 mm to 100 mm from the bottom edges of the faces, so that a female fitting is obtained which fits to the upper male fittings of the blocks the transversal strip having openings in a position coinciding with the cavities going through the blocks, the block being intended to constitute formwork for beams or lintels with pillars going through or to form grooves or channels for laying ducts or cables thereinto.

Compl. Specn 29 pages. Drg 12 sheets.

CLASS : 55 A. 160430

Int. Cl. A 513 13/00.

"A PROCESS FOR THE PREPARATION OF A COMPOSITION CAPABLE OF SUSTAINED GENERATION OF CHLORINE DIOXIDE ON ADMIXTURE FOR DISINFECTING A SUBSTRATE".

Applicant : ALCIDE CORPORATION, A CORPORATION OF THE STATE OF DELAWARE, OF ONE WILLARD ROAD, NORWALK, CONNECTICUT 06851, U.S.A.

Inventors : EUGENE A. DAVIDSON. 2. ROBERT D. KROSS.

Application for Ptent No. 185/Mas/85 filed on 18th March, 1985.

Appropriate office for opposition preceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

A process for the preparation of a composition capable of sustained generation of chlorine dioxide on admixture for disinfecting a substrate comprising the steps of mixture an organic acid having a pk of 2.8 to 4.2 to keep the pH of the final composition below 7 and 2 to 40% by weight of a vicinal polyhundroxy compound such as herein described, the said admixture being provided in one unit of a container, the second unit of the said container, having 0.02 to 2% of a chlorine dioxide liberating compound in a liquid or gel medium with the proviso that the contents of the said two units are admixed in equal amounts just prior to use.

Compl. Specn. 15 pages. Drg. Nil.

CLASS : 147 C, E. 160431

Int. Cl. : G 11 b 15/00.

A TENSIONING DEVICE FOR A TAPE MECHANISM OF A COCKPIT VOICE RECORDER.

Applicant : ELECTRONICS CORPORATION OF INDIA LTD., INDUSTRIAL DEVELOPMENT AREA, CHERLAPALLI, HYDERABAD-500762, INDIA, AN INDIAN COMPANY.

Inventors : MADAN MOHAN NIGAM, SOMESH MUKHERJEE, KAMBAMPATI VENKATA RATNAM.

Application No 209/Mas/84 filed on 29th March 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A tensioning device for a tape mechanism of a cockpit voice recorder comprising a base plate for supporting the housing of the tape mechanism, a motor mounted on said base plate and adapted to drive a fly wheel through a drive belt, said fly wheel mounted on the capstan shaft of the tape mechanism characterized in that the said drive belt is provided with a tensioning means comprising a bracket mounted on said base plate and having a pulley disposed in the path of the drive belt, said bracket comprising a lower arm mounted on said base plate and an upper arm for rotatably supporting said pulley, said base plate having a first and second slot, said second slot being an arcuate slot, the lower arm of said bracket having a first and second opening in correspondence with the slots of said base plate for receiving a fastening means.

Compl specn. 7 pages. Drg. 1 sheet

CLASS : 32 F2(a) & 32 F 2(b) 160432

Int. Cl. : C 07 c 127/12.

A PROCESS FOR PREPARING N-(ARYLTHIO-ALKYL-N'-(AMINOALKYL) UREAS.

Applicant : A. H. ROBINS COMPANY, INCORPORATED, OF 1407 CUMMINGS DRIVE RICHMOND VIRGINIA. 23220, UNITED STATES OF AMERICA, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF VIRGINIA, UNITED STATES OF AMERICA.

Inventors : 1. JAMES ROBERT SHANKLIN, JR. 2. CHRISTAPHEN PETER JOHNSON III.

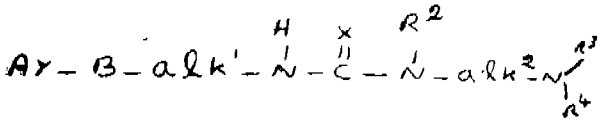
Application for Patent No. 1001/Mas/84 filed on 17th December, 1984.

Divided out of Application No. 557/Cal/82 dated 18th May 1982 (155992).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A process for preparing N-(arylthioalkyl)-N'-(aminoalkyl) ureas, of the formula Ic of the accompanying drawings



Formula Ic

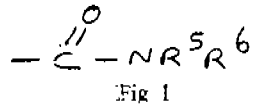


Fig 1

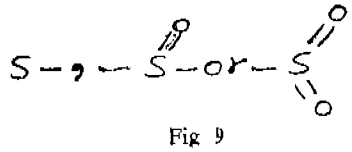


Fig 9

and pharmaceutically acceptable addition salts wherein Ar is selected from the roup consisting of 1 and 2-naphthyl, 2, 3-dihydro-1 H inden-4(or 5)yl, 2-furanyl, phenyl or phenyl substituted by 1–3 radicals which may be the same or different selected from the group consisting of loweralkyl, loweralkoxy halogen, trifluoromethyl, nitro, cyano, or a group of formula shown in Fig. 1 of the drawings, wherein R^5 and R^6 are selected from hydrogen or loweralkyl.

R^2 is selected from the group consisting of hydrogen, loweralkyl, cycloalkyl, phenyl, or phenyl-loweralkyl wherein phenyl may be substituted by haloen, loweralkyl or loweralkoxy. X is selected from oxygen or sulfur, B is selected from the group consisting of those shown in Fig. 9 of the drawings

R^3 and R^4 are selected from the group consisting of hydrogen, loweralkyl, phenyl and phenyl-loweralkyl wherein phenyl may be substituted by halogen, loweralkyl or loweralkoxy and may be the same or different, or R^3 and R^4 taken together with the adjacent nitrogen from a pyrrolidine, piperidine, piperazine, 4-loweralkylpiperazine or morpholine group.

alk^1 and alk^2 are selected from the group consisting of loweralkylene or loweralkylene-loweralkyl and may be the same or different, which comprises, reacting a compound of formula

Ar — B-alk^1-NH_2 ———— IV b

wherein Ar, B and alk^1 are as defined above, with 1, 1'-carbonyl-diimidazole or 1, 1'-thiocarbonyldiimidazole and compound of formula

R^2 NH-alk^2 NR^3 R^4 ———— II b

wherein alk^2, R^3 and R^4 are as defined above except that R and R are not hydrogen; or if required, converting the said compound of formula Ic into a pharmaceutically acceptable salt by known means

Compl. specn. 43 pages. Drg. 2 sheets

CLASS : 32 F 2 a & 32 F 2 b. 160433

Int. Cl. : C 07 c 127/12.

"A PROCESS FOR PREPARING N-(ARYLTHIO-ALKYL)-N'-(AMINOALKYL) UREAS".

Applicant : A. H. ROBINS COMPANY, INCORPORATED OF 1407 CUMMINGS DRIVE, RICHMOND, VIRGINIA 23220, UNITED STATES OF AMERICA, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF VIRGINIA, UNITED STATES OF AMERICA.

Invntors : JAMES ROBERT SHANKLIN, JR. CHRISTOPHER PETER JOHNSON, III.

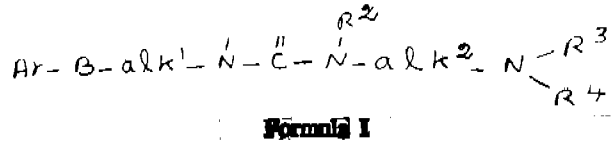
Application for Patent No. 1002/Mas/84 filed on 17th December, 1984.

Division of Application No. 557/Cal/82 dated 18th May 1982, No. 155992.

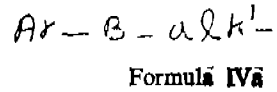
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

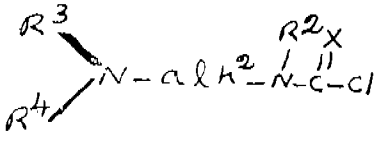
A process for preparing N-(arylthioalkyl)-N/-(aminoalkyl) ureas of formula I shown in the accompanying drawings.



Formula I



Formula IVa



Formula V

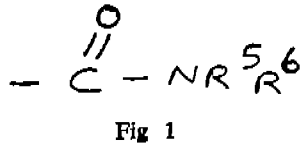


Fig 1

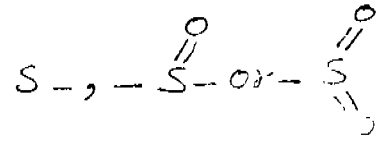


Fig 2

wherein Ar is selected from the group consisting of 1 and 2 naphthyl, 2, 3-dihydro-1H-iden-4 for 5) yl, 2-furanyl, phenyl or phenyl substituted by 1-3 radicals which may be the same or different selected from the g roup constitute of loweralkyl, loweralkoxy, halogen, trifluormmethyl, nitro, cyane, or a group of formula shown in Fig. 1, of the drawings,

wherein R^5 and R^6 are selected from hydrogen or loweralkyl, and Ar may include one intervening methylene group attached to B, R is selected from the group consisting of hydrogen, loweralkyl, cycloalkyl, phenyl or phenyl-loweralkyl wherein phenyl may be substituted by halogen, loweralkl or loweralkoxy, A^2 is selected from the group consisting of loweralkyl, cycloalkyl, phenyl, or phenyl-loweralkyl wherein phenyl may be substituted by halogen, loweralkyl or loweralkox, X is selected from oxygen or sulfur B is selected from the group consisting of those shown in Fig. 9 of the drawing,

R^3 and R^4 are selected from the group consisting of loweralkyl, phenyl and phenyl-loweralkyl wherein phenyl may be substituted by halogen, loweralkyl or loweralkoxy and may be the same or different, or R^3 and R^4 taken together with the adjacent nitrogen from a pyrrolidine, piperidine, piperazine, 4-loweralkylpiperazine or morpholine group, alk and alk^2 are selected from the group consisting of loweralkylene or loweralkylene-loweralkyl and may be the same or different, or a pharmaceutically acceptable addition salt or hydrates thereof, comprises reacting a compound of formula V shown in the accompanying drawings,

wherein R^2 R^3 R^4, alk^2 and X are as defined above with a compound of formula IV a shown in the accompanying drawings,

if required converting the compound of formula I into a pharmaceutically acceptable salt in a known manner.

Compl. Specn. 44 pages. Drg. 2 sheets.

CLASS : 32 F 2 a & 32 F 2 b. 160434

Int .Cl. : C 07 c 127/12.

"A PROCESS FOR PREPARING N-(ARYLOXY-ALKYL)-N'-(AMINOALKYL) UREAS.

Applicant : A. H. ROBINS COMPANY, INCORUORATED, OF 1407 CUMMINGS DRIVE, RICHMOND, VIRGINIA 23220, UNITED STATES OF AMERICA. A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF VIRGINIA, UNITED STATES OF AMERICA.

Inventors : 1. JAMES ROBERT SHANKLIN. 2. CHRISTOPHER PETER JOHNSON.

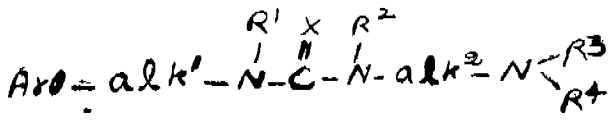
Application for Patent No. 1004/Mas/84 filed on 18th December, 1984.

Division of Application No. 556/Cal/82 filed on 18th May 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

13 Claims

A process for preparing a compound having the formula I shown in the accompanying drawings,



or a pharmaceutically acceptable addition salt thereof, wherein Ar is 1-or 2-naphthyl, 2, 3-dihydro-1-H-inden-4 (or 5), yl, phenyl or phenyl substituted by 1-3 radicals which may be the same or different selected from the group consisting of loweralkyl, loweralkoxy, halogen, trifluoromethyl, amine, nitro, loweralkylthio, loweralkylsulfinyl loweralkylsulfonyl, loweralkyanoyl, aroylamine and acylamine; R^1 is loweralkyl, cycloalkyl, phenyl and phenyl-loweralkyl, R^2, is hydrogen, wherein the phenyl group may be substituted by halogen, loweralkyl or loweralkoxy; X is selected from oxygen and sulfur; R^3 and R^4 are selected from the group consisting of hydrogen, loweralkyl, phenyl and phenylalkyl wherein the phenyl group may be substituted by halogen, loweralkyl or loweralkoxy and may be the same or different or R^3 and R^4 taken together with the adjacent nitrogen from a pyrrolidine piperidine, piperazine, 4-loweralkyl-piperazine or morpholine group; alk^1 and alk^2 are selected from the group consisting of loweralkylene or loweralkylene loweralkyl and may be the same or different provided that if Ar is unsubstituted phenyl alk^1 and alk^2 are both othylene, R^1 is methyl then R^3 and R^4 are not both ethyl groups and R^3 and R^4 together with the adjacent nitrogen atom do not form a pyrrolidine group which process comprises : reacting a compound of formula IIb

R^2H N—Alk^2 NR^3 R^4

wherein alk^2, R^3 and R^4 are as defined above, with 1, 1'-carbonyldiimidazole and reacting the compound obtained with a compound of formula IV a.

ArO-alk-NHR1

wherein Ar, alk and R are as defined above converting the compound of formula I into a pharmaceutically acceptable salt thereof in any known manner.

Compl. Specn. 46 pages. Drg. 1 sheet.

CLASS : 32 F 2 a, & 32 F 2 b. 160435

Int. Cl. : C 07 c 127/12.

"A PROCESS FOR PREPARING N-(ARYLOXY-ALKYL)-N/-(AMINOALKYL) U REAS.

Applicant : A. H. ROBINS COMPANY, INCORPORATED, OF 1407 CUMMINGS DRIVE, RICHMOND, VIRGINIA 23220, UNITED STATES OF AMERICA A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF VIRGINIA, UNITED STATES OF AMERICA.

Inventors : 1. JAMES ROBERT SHANKLIN. 2. CHRISTOPHER PETER JOHNSON.

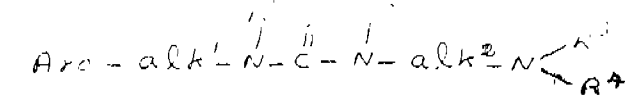
Application for Patent No. 1005/Mas/84 filed on 18th December, 1984.

Division of Application No. 556/Cal/82 dated 18th May 1982. No. 156479.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

13 Claims

A process for preparing N-(aryloxyalkyl)-N'-(animoalkyl) ureas and thioureas having the formula I shown in the accompanying drawings,



or a pharmaceutically acceptable addition salt thereof, wherein Ar is 1-or 2-naphthyl, 2, 3-dihydro-1-H-iden-4 (or 5) yl, p henyl or phenyl substituted by 1-3 radicals which may be the same or different selected from the group consisting of loweralkyl loweralkoxy, halogen, trifluormmothyl amino, nitro, loweralkylithio, loweralkylsulfinyl, loweralkylsulfonyl, loweralkanoyl, aroylamine and acylamine; R^1 is hydrogen R^2 is selected from the group consisting of hydrogen, loweralkyl, cycloalkyl, phenyl and phenyl-loweralkyl, wherein the phenyl group may be substituted by halogen, loweralkyl, or loweralkoxy, X is selected from oxygen and sulfur; R^3 and R^4 are selected from the group consisting of hydrogen loweralkyl, phenyl and phenylalkyl wherein the phenyl group may be substituted by halogen, loweralkyl, or loweralkoxy and may be the same or different or R^3 and R^4 taken together with the adjacent nitrogen from a pyrrolidine, piperidine, piperazine, 4-loweralkylpiperazine or morpholine group; alk^1 and alk^2 are selcted from the group consisting of loweralkylene or loweralkylene-loweralkyl and may be the same or different provided that if Ar is unsubstiuted phenyl alk^1 and alk^2 are both ethylene and R^2 is hydrogen, the R^3 and R^4 are not both othyl groups and R^3 and R^4 together with the adjacent nitrogen atom do not form a pyrrolidine group or, which process comprises; reacting a compound of formula IV b.

$$ArO - alk^1 - NH_2$$

wherein Ar and Alk 1 are as defined above with 1, 1-carbonyl-diimidazole and reacting the product obtained with an alkyl diamine compound of formula

$$R^2NH - alk^2 - NR^3R^4$$

wherein R^2, alk^2, R^3 and R^4 are as defined above; and if required converting the said compound of formula I into a pharmaceutically acceptable salt thereof in any known manner.

Compl. Specn. 38 pages. Drg. 1 sheet

CLASS : 32 F 2 a & 32 F 2 b. 160436

Int. Cl. C 07 c 127/12.

"A PROCESS FOR PREPARING N-(ARYLOXY-ALKYL)-N'-(AMINOALKYL) UREAS AND ITS PHARMACEUTICALLY ACCEPTABLE SALT.

Applicant : A. H. ROBINS COMPANY, INCORPORATED, OF 1407 SUMMINGS DRIVE, RICHMOND, VIRGINIA 23220, UNITED STATES OF AMERICA A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF VIRGINIA, UNITED STATES OF AMERICA.

Inventors : 1. JAMES ROBERT SHANKLIN. 2. CHRISTOPHER PETER JOHNSON.

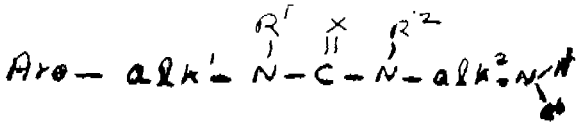
Application for Patent No. 1006/Mas/84 filed on 18th December, 1984.

Division of Application No. 566/Cal/82 dated 18th May, 1982.

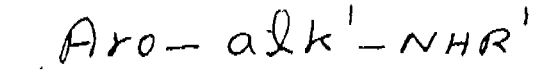
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

12 Claims

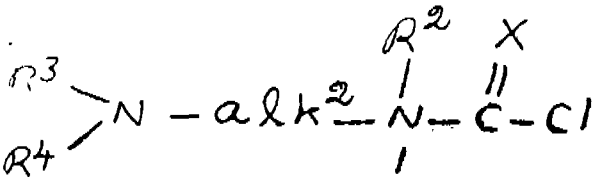
A process for preparing N-(aryloxy-alkyl)-N'-(aminoalkyl) ureas having the formula I shown in the accompanying drawings,



Formula I



Formula Va



Formula V

and its pharamaceutically acceptable addition salt thereof, wherein Ar is 1-or 2-naphthyl 2 3-dihydro-1H-inden-4 (or 5) yl, phenyl or phenyl substituted by 1-3 radicals which may be the same or different selected from the group consisting of loweralkyl, loweralkoxy, halogen, trifluormethyl, amino, nitro, loweralkythio, loweralkyl-sulfinyl, loweralkylsulfonyl, loweralkanoyl, aroylamino and acylamine; R^1 is selected from the group consisting of hydrogen, loweralkyl cycloalkyl, phenyl, and phenyl-loweralkyl, wherein the phenyl group may be substituted by halogen, loweralkyl or loweralkoxy; R^2 is selected from the group consisting of loweralkyl, cycloalkyl, phenyl and phenyl-loweralkyl, wherein the phenyl group may be substituted by halogen, loweralkyl or loweralkoxy; X is selected from oxygen and sulfur, R^3 and R^4 are selected from the group consisting of loweralkyl phenyl and phenylalkyl wherein the phenyl group may be substiuted by halogen, loweralkyl or loweralkoxy and may be the same or different R^3 and R^4 taken together with the adjacent nitrogen form a pyrrolidine, piperidine, piperazine, 4-loweralkyl-piperazine or morpholine group; alk^1 and alk^2 are selected from the group consisting of loweralkylene or loweralkylene-loweralkyl and may be the same or different, which process comprises:

to obtain a compound in which R^2 R^3 and R^4 are other than hydrogen reacting a compound of formula V shown in accompanying drawings,

wherein R^2, R^3, R^4, alk^2 and X are as defined above, with a compound of formula IVa.

subjecting the resulting compound to hydrogenation by known methods, when Ar is phenyl substituted nitro group to obtain a compound of formula I in which Ar is phenyl substituted by an amino group and if desired converting in a known manner the compound of formula I into a pharmaceutically acceptable salt thereof:

Compl. Specn. 39 pages. Drg. 1 sheet.

CLASS : 32 F 3 (b). 160437

Int. Cl. : C 07 c 61/16, 61/20.

"A PROCESS FOR PREPARING 16-PHENOXY-AND 16-SUBSTITUTED PHENOXY-PROSTATRIENOIE ACID DERIVATIVES AND THEIR STEREOISOMERS".

Applicant : Syntex (U.S.A.) Inc., OF 3401 HILLVIEW AVENUE, PALO ALTO, CALIFORNIA 94304, U.S.A. A U.S. CORPORATION.

Inventors : (1) CRAY FRANCIS COOPER, (2) DOUGLAS LESLIE WREN, (3) ALBERT REYNOLDS VAN HORN, (4) TSUNG-TEE LI AND (5) COLIN CHARLES BEARD.

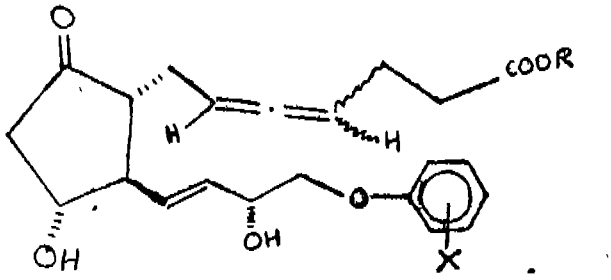
Application No. 1020/Mas/84 filed December 20, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims

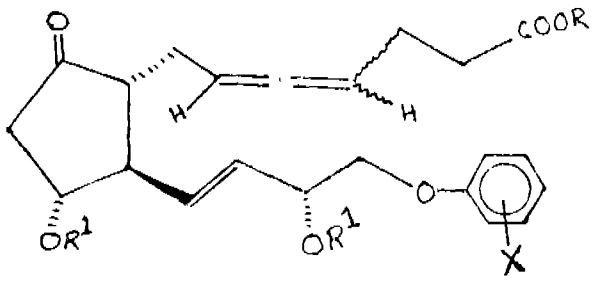
A process for preparing a compound of the formla I as shown in the accompanying drawings,

or its counterpart of the unnatural prostaglandin configuration, or mixtures thereof, wherein R is hydrogen or a loweralkyl, preferably methyl; X is hydrogen, helo, trifluoromethyl, loweralkyl or loweralkoxy, preferably hydrogen, and the wavy lines represent the α or β configuration with the proviso that when one wavy line is α the other is β or a pharmaceutically acceptable, non-toxic salt of the compound of Formula I



Formula I

wherin R is hydrogen, which process comprises hydrolyzing with acid the R^1 groups of a compound of the Formula II



Formula II

or its counterpart of the unnatural prostagland in configuration, or mixtures thereof, wherin R, X and the wavy lines are as defined above and R^1 is a base-stable acid-labile ether-forming group, such as tetrahydropyranyl, tetrahydrofuranyl or 2-thoxyethyl most preferably tetrahydropyranyl, and optionally converting the said compound of formula I wherein R is hydrogen to its pharmaceutically acceptable non-toxic salts by any known manner.

Compl. Specn. 38 pages. Drg. 4 sheets

CLASS : 32 F 2(C). 160438

Int. Cl. : C 07 C 85/00.

"A PROCESS FOR PREPARING A NOVEL STRAIGHT CHAINED POLYMER AMINO COMPOUND"

Applicant & nventor : ADAM KOVACS, OF H-2097 PILISBOROSJENO, BUZA U 2, HUNGARY, HUNGARIAN CITIZEN.

Application No. 1042/Mas/84 filed on 27th December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A process for preparing a novel straight chained polymer amino compound of formula I comprising reacting a fatty acid of the formula

R-COOH

wherein R_1 is hydrogen or long aliphatic acyl radical to 20 carbon atoms which may contain one or more unsaturations, with a polyamine of the formula

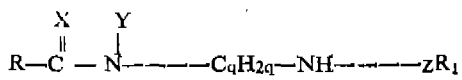
HN_2—$(C_qH_{2q}NH)$—zR_1

wherein R_1 is hydrogen or lon galiphatic acyl radical which may contain one or more unsaturation,

z is 1 to 5, and
q is 1 to 4,

to form a compound of general formula/I/

wherein R, R_1, z and q are as defined above,



X is oxygen and Y is hydrogen, or X and Y, when taken together, from a radical of the formula

—N—CH_2—CH_2—

Compl. Specn. 19 pages. Drg. 1 sheet.

CLASS : 32F2b. 160439.

Int. Cl. : C 07 d 31/24.

"PROCESS FOR THE PREPARATION OF AROYLAMINO-N-PHENYLPYRIDINAMINES".

Applicant : A. H. ROBINS COMPANY, INCORPORATED of 1407 Cummings Drive, Richmond, Virginia 23220, United States of America, a Corporation organised Under the laws of Virginia, United States of America.

Inventors : 1. CHANDLER ROY TAYLOR, 2. YOUNG SEK LO.

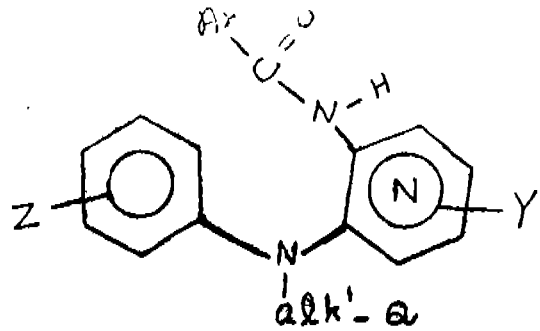
Application for Patent No. 1044/Mas/84 dated 27th December 1984.

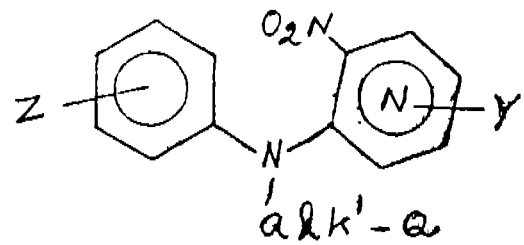
Division of Application No. 1436/Cal/82 dated 10th December 82. (156481)

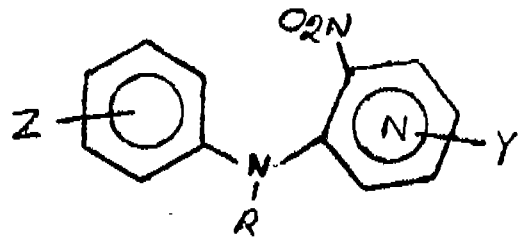
Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office, Madras Branch.

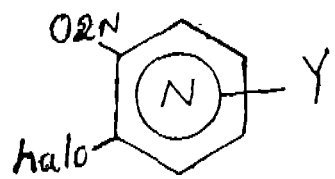
2 Claims

A process for the preparation of an aroylamino-N-phenylpyridinamines having the formula II shown in the accompanying drawings,









wherein Q is selected from the group consisting of hydrogen, $-NR^1R^2$or chlore; R^1 and R^2 are selected from the group consisting of loweralkyl or taken together with the adjacent nitrogen atom form a heteracyclic residue selected from 1-phthalimide 4-morpholinyl, 1-pyrrolidinyl, 1-piperidinyl or 4-substituted-1-piperazinyl; Ar is selected from the group consisting of 2 or 3-thionyl, 2, 3 or 4 pyridinyl, phenyl substituted by 1 to 3 radicals selected from halo, loweralkyl, loweralkoxy trifluoromethyl or nitro and may be the same or different; alk^1 is a straight or branched hydrocarbon chain containing 1-8 carbon atoms; Z is selected from the group consisting of hydrogen, halogen, loweralkyl, loweralkoxy or nitro. Y is selected from the group consisting of hydrogen or 1-2 radicals selected from lower alkyl or loweralkoxy and may be the same or different, and the acid addition salts thereof which comprises the stops of heating a mixture of an aniline having the formula VII shown in the drawings,

wherein R is hydrogen or loweralkyl and Z is as defined above and a halo-nitropyridine having the formula VI shown in the drawings.

Y is as defined above; Optionally reacting the resulting compound having the formula V of the drawing

when R is hydrogen with a reagent having the formula Q-alk^1-halo wherein Q is selected from the group consisting of hydrogen chlore or -NR^{1}R^2 wherein R^1 and R^2 are as defined above to give a compound of the formula IV shown in the drawings,

wherein Y, Z, alk^1 and Q are as defined above.

Subsequently reducing the nitro group into amino group; the amino group thus obtained is reacted with an aroyl halide to give aroyl amino group and thereafter is desired converting it in a known manner to the addition salt.

(Complete Specification 43 Pages. Drawings 3 Sheets)

CLASS : 32 F1, 32 F2 (b) & 55E4. 160440.

Int. Cl. : C 07 d 51/42.

PROCESS FOR THE PREPARATION OF AMINO-N-PHENYLPYRIDINAMINES.

Applicant : A. H. ROBINS COMPANY, INCORPORATED of 1407 Cummings Drive, Richmond, Virginia 23220, United States of America, a Corporation organised under the laws of Virginia, United States of America.

Inventors : (1) CHANDLER ROY TAYLOR AND (2) YOUNG SE KLO.

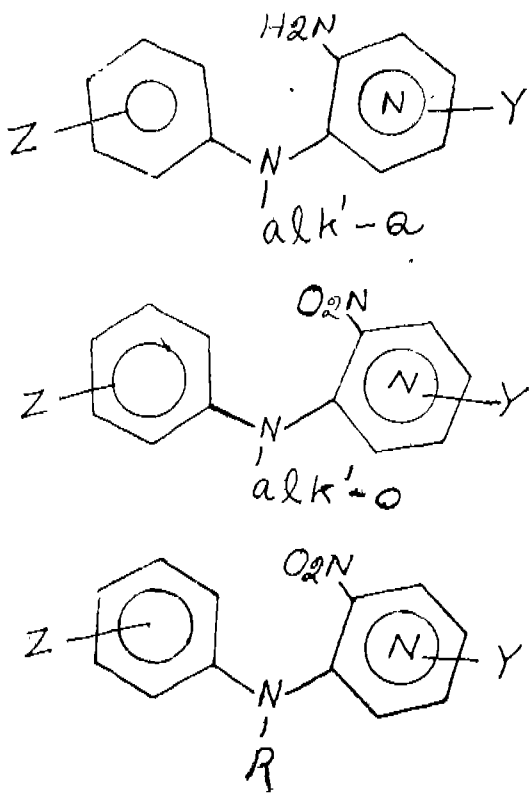
Application No. 1045/MAS/84 December 27, 1984.

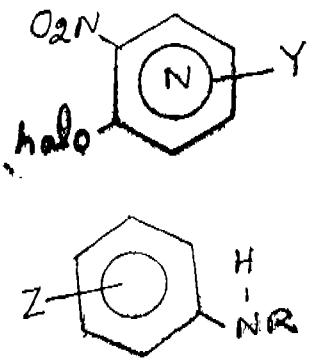
Division of Application No. 1436/CAL/82 dated 10th December, 1982. (156481)

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims.

A process for the preparation of an amino-N-phenyl-pyridinamine having the formula III shown in the accompanying drawings, wherein :





Q is selected from the group consisting of hydrogen, -NR^{1}R^2 or chloro;

R^1 and R^2 are selected from the group consisting of lower-alkyl or taken together with the adjacent nitrogen atom form a heterocyclic residue selected from 1-phthalimido, 4-morpholinyl, 1-pyrrolininyl, 1-piperidinyl or 4-substituted-1-piperazinyl;

alk^1 is a straight or branched hydrocarbon chain containing 1-8 carbon atoms;

Z is selected from the group consisting of hydrogen, helogen, loweralkyl, loweralkoxy or nitro;

Y is selected from the group consisting of hydrogen or 1-2 radicals selected from lower alkyl or loweralkoxy and may be the same or different;

and the acid addition salts thereof which comprises

heating a mixture of an aniline having the formula VII shown in the drawings,

wherein R is hydrogen or loweralkyl and Z is as defined above and a halonitropyridine having the formula VI shown in the drawings, wherein Y is as defined above to give a compound of the formula V of the drawings,

wherein R is hydrogen or loweralkyl and Y and Z are as defined above;

optionally reacting the compound prepared when R is hydrogen with a reagent having the formula

Q-alk^1 -halo

wherein alk^1 is as defined above, Q is selected from the group consisting of hydrogen or N-R^1 and R^2 are as defined above with an alkylating agent to give a compound of the formula IV shown in the drawings,

wherein Y, Z, alk^1 and Q are as defined above, and subsequently reducing by known means the nitro group into an amino group and thereafter optionally converting it to the acid addition salts by a known method.

Compl. specn. 29 pages. Drg. 3 sheets.

CLASS : 32 F2(b). 160441

Int. Cl. C 07 d 31/40.

PROCESS FOR THE PREPARATION OF AMINO-N-PHENYLPYRIDINAMINES.

Applicant : A. H. ROBINS COMPANY, INCORPORATED of 1407 Cummings Drive, Richmond, Virginia 23220, United States of America, a Corporation organised under the laws of Virginia, United States of America.

Inventors : (1) CHANDLER ROY TAYLOR AND (2) YOUNG SEK LO.

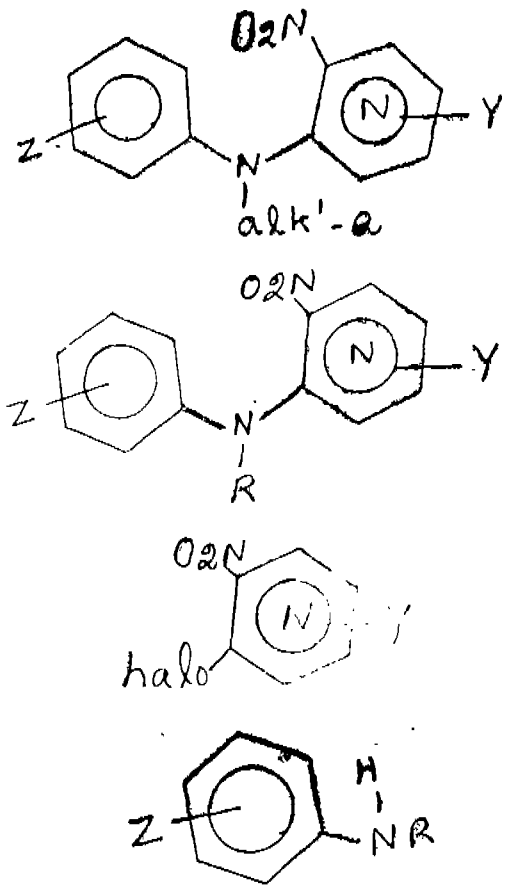
Application No. 1046/MAS/84 filed December 27, 1984.

Division of Application No. 1436/CAL/82 dated 10th December, 1982. (156481)

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims.

A process for the preparation of an amino-N-phenyl-pyridinamine having the formula IV shown in the accompanying drawings, wherein :



Q is selected from the group consisting of nydrogen -NR^1R^2 or chloro;

R^1 and R^2 are selected from the group consisting of lower-alkyl or taken together with the adjacent nitrogen atom form a heterocyclic residue selected from 1-phthalimido, 4-morpholinyl, 1-pyrrolidinyl, 1-piperidinyl or 4-substituted-1-piperazinyl;

alk^1 is a straight or branched hydrocarbon chain containing 1-8 carbon atoms;

Z is selected from the group consisting of dydrogen, helogen, loweralkyl, loweralkoxy or nitro;

Y is selected from the group consisting of hydrogen or 1-2 radicals selected from lower alkyl or loweralkoxy and may be the same or different;

and the acid addition salts thereof which comprises the steps of

(1) heating in the range of 100°C—150°C a mixture of an aniline having the formula VII shown in the accompanying drawings.

wherein R is hydrogen or loweralkyl and Z is as defined above and a halo-nitropyridine having the formula VI shown in the accompanying drawing,

wherein Y is an defined above to give a compound of the formula V shown in the accompanying drawings,

wherein R is hydrogen or loweralkyl and Y and Z are as defined above; and

(2) reacting the compound prepared in step 1 wherein R is hydrogen with a reagent having the formula

Q-alk^1 -halo

wherein alk^1 is defined above, Q is selected from the group consisting of hydrogen, halogen or-NR^1R^2 wherein R^1 and R^2 are as defined above, together with an alkylating agent and optionally converting it to acid addition salts in a known way.

Compl. specn. 30 pages. Drg. 3 sheets.

CLASS : 55F. 160442.

Int. Cl : B65d 53/06.

"APPARATUS AND METHOD FOR SEALING CAPSULES".

Applicant : WARNER LAMBERT COMPANY, of 201 Tabor Road, Morris Plains, New Jersey 07950, U.S.A., a corporation organised and existing under the laws of the State of Delaware, U.S.A.

Inventor : IVAN TOMKA.

Application for Patent No. 639/DEL/1983 filed on 15th September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A method for the manufacture of sealed gelatin capsules having hard shell coaxial cap and body parts which overlap when telescopically joined, comprising the steps of :

A. contacting the capsules with a sealing fluid selected from the group consisting of organic solvents such as herein described having a solubility parameter between about 10 to about 23.4; and being sufficiently miscible with water at a pH range between 1 to 13, aqueous solution of salts such as herein in described, polymer solutions or emulsions such as herein described, water at a pH range between 1 and 13 and mixtures thereof;

B. removing the excess sealing fluid in a manner such as herein described from the surface of the capsules;

C. sealing together the cap and the body parts by heating the overlap locally for about two seconds so as to cause peptization or denaturation of gelating within the overlap, and thereby producing sealed gelatin capsules.

(Complete Specification 30 pages. Drawing 2 sheets)

CLASS : 13 A, 98 E. 160443

Int. Cl. : C 09 k 3/02.

"A HEATING BAG AND A METHOD TO THE MANUFACTURE THEREOF".

Applicant : THE CHIEF CONTROLLER, RESEARCH & DEVELOPMENT, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, New Delhi (INDIA), an Indian National.

Inventor : PALLE RAMA RAO, TRILOK SINGH, BEVARA VENKATESWARA RAO.

Application for Patent No. 654/DEL/83 filed on 21st September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

A heating bag as hereinbefore defined comprising a bag made of a material as herein defined containing a composition consisting of metal powders and metal compounds for generation of heat by oxidation of the said composition, said metal powders being selected from a group consisting of copper, iron, zinc and aluminium and present in an amount of 60 to 95% by weight and the said metal compounds being selected from a group consisting of sodium carbonate, sodium chloride, magnesium chloride and iron oxide and present in an amount of 5 to 40% by weight, said composite generating heat by oxidation in the presence of air.

(Complete Specification 5 pages)

CLASS : 32 F 3 (C). 160444

Int. Cl. : C 12 C—10/00.

A PROCESS FOR THE SIMULTANEOUS SACCHARIFICATION AND FERMENTATION OF CELLULOSE TO ETHANOL.

Applicants : INDIAN INSTITUTE OF TECHNOLOGY, DELHI, Hauz Khas, New Delhi-110 016, India and Indian Institute.

Inventors : TARUN KUMAR GHOSE, PURNENDU GHOSH, PRADIP KUMAR ROYCHOUDHURY.

Application for Patent No. 693/DEL/1983 filed on the 07th October, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

2 Claims

A process for the simultaneous saccharification and fermentation of cellulose to ethanol which comprises in reacting delignified cellulose, nutrients as herein described and yeast at a PH of 4 to 5 and at a temperature of 34 to 45°C to obtain ethanol, characterized in that the broth consisting of the reaction medium is subjected to the step of vacuum cycling for removing ethanol formed during the reaction to keep its level in the broth between 0.5% to 2.5% by weight.

(Complete Specification 08 pages)

CLASS : 122. 160445

Int. Cl. : B03C 3/00, 3/66 & 3/68.

"ELECTROSTATIC DUST SEPARATOR".

Applicant : WALTHER & CIE AKTIENGESELLSCHAFT of Waltherstrasse 51, D-5000 Koln 80 (Dellbruck), Federal Republic of Germany, a German Company.

Inventors : FRIEDRICH EISERLO & KURT EMMRICH.

Application for patent No. 704/Del/83 filed on 19th October, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

An electrostatic dust separator in combination with an electric supply unit, comprising a transformer having a primary circuit that contains a pulse controlled thyristor circuit and a secondary circuit consisting of a dust separator and a capacitor connected in series and a detector coupled to an electrode of the dust separator, said detector being responsive only to rapid voltage variations occurring with a spark-over at the dust separator and thereupon enabling the thyristor circuit to become conductive.

(Complete specification 12 pages, Drawing 2 sheet)

CLASS : 12C, 97 E & 98 E. 160446

Int. Cl. : H05b 5/00, 5/08, 9/00, 9/02 C21d 1/42.

"A RADIO FREQUENCY INDUCTION HEATER".

Applicant : ARMCO INC., a corporation of the State of Ohio, of 703 Curtis Street, Middletown, Ohio, U.S.A.

Inventors : RUSSEL LYNN YOUNG & DAVID EARL MARGERUM.

Application for Patent No. 712/Del/83 filed on 21st October, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A radio frequency induction heater for locally heating a metallic strip which is moved in its rolling direction said induction heater comprising an electrical conductor, an elongated core of magnetic material surrounding said conductor, a narrow slot in said core of a width of from 0.076 2.5 mm (0.003 to 0.1 inch), said slot extending longitudinally of said core and having an inductor core air gap and forming substantially opposed pole faces in said core, a source of radio frequency current in the range of from 10 KHz to 27 MHz, said conductor being connected across said source of radio frequency current, said heater being located transversely of said metallic strip with said metallic strip located adjacent said core at said gap therein, whereby narrow bands of said strip in parallel spaced relationship are heated when eddy currents are periodically induced therein by said radio frequency current.

(Complete specification 5 pages Drawing 2 sheets)

CLASS : 139A & 142 160447

Int. Cl. : B24b-9/16.

"A PROCESS FOR DECOLOURISATION OF NATURAL COLOURED DIAMOND".

Applicant & Inventor : BAL KRISHNA SARAF S/o Shri Kishan Rao Saraf C/o M/s. Jai Shree Enterprises, 3339, Gali Peepal Mahadev, Hauz Quazi, Delhi-110006, Indian Nationals.

Application for Patent No. 756/Del/1983 filed on 14th November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

A process for decolourising the natural coloured diamond with chemical composition consisting of :

Potasium Carbonate	46%
Potasium Chloride	31.70%
Sodium Oxide	22.30%

Comprising filling up in an earthern crucible of 100 cc capacity the said chemical composition alongwith coloured diamond piece in the middle of the crucible, heating to red hot at a temperature of about 700°C to 1000°C by using blow lamp or an electric furnace for a period of 10-20 minutes depending on the intensity of the colour in the diamond, cooling at room temperature, washing with plain water, and wiping with cloth.

(Complete specification 5 pages)

CLASS : 170 D & 189. 160448

Int. Cl. : C 11 d-1/00 & 3/00.

"METHOD FOR THE MANUFACTURE OF SOLID NON-DETERGENT COMPOSITIONS.

Applicant : ALBRIGHT & WILSON LIMITED, a British Company, of Albright & Wilson House, Hagley Road West, Oldbury, Warley, West Midlands, England.

Inventors : JOHN BECK & DAVID CONNOR.

Application for Patent No. 791/Del/1983 filed on 28th November 1983.

Convention application No. 8234861 dated 07th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

27 Claims

A method for the manufacture of solid non-soap detergent compositions which comprises mixing an aqueous surfactant, which surfactant comprises at least 50%, based on the total weight of surface active ingredients, of a water soluble alkyl sulphate or fatty acid sulphonate or fatty ester sulphonate, at a concentrate on above the M_1/G phase transition concentration, but below the G phase solid transition concentration and at a temperature above the G phase/solid transition temperature, with at least one builder of the kind such as herein described and optionally, other ingredients of the kind such as herein described of said laundry compositions and forming the mixture into a solid composition by non-evaporative solidification.

(Complete specification 22 pages)

CLASS : $32F_1$, $32F_2$(b). 160449.

Int. Class : CO7d 49/00.

"A PROCESS FOR PREPARING SPIRO-3-HETERO-AZOLONES AND PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF".

Applicant : PFIZER INC., a corporation organised under the laws of the State of Delware, United States of America, of 235 East 42nd Street, New York, State of New York, United States of America.

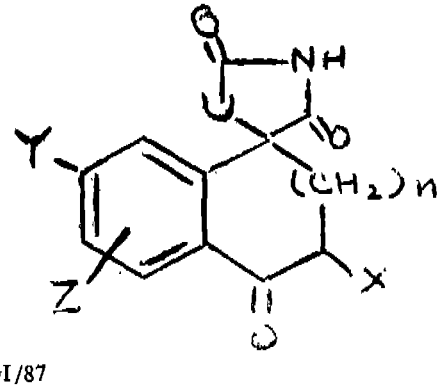
Inventor : CHRISTOPHER ANDREW LIPINSKI.

Application for patent no. 838/Del/83 filed on 14th December, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A process for preparing a compound of the Formula IC and a pharmaceutically acceptable salts thereof, wherein



U is oxygen, sulfur or nitrogen substituted with hydrogen or alkyl having 1-4 carbon atoms;

n is zero or one;

X is hydrogen, chloro, bromo, iodo, alkyl having 1-4 carbon atoms, dimethyl or (CH_2)mQ wherein m is 1 or 2 and Q is phenyl or halophenyl, with the proviso that when X is dimethyl, n is one;

Y is hydrogen, halo, nitro, trifluoromethyl, alkoxy having 1-4 carbon atoms or alkyl having 1-4 carbon atoms, with the proviso that if either Y or Z is nitro the other is hydrogen;

which comprises reacting with a strong Lewis acid a compound of the Formula V wherein U, n, X, Y and Z are all as defined above and converting by any known method, the compound of Formula IC so produced to its pharmaceutically acceptable salts.

(Complete specification 58 pages Drawing 3 sheets).

CLASS : 40B. 160450.

Int. Class : BO1j 11/00.

"A PROCESS FOR THE PREPARATION OF NEW STABLE HOMOGENEOUS HYDROGENATIONS RHODIUM CATALYSTS".

Applicant : HOVIONE INTER LTD., a Swiss Corporate Body, of P.O. Box 1500, 8305 Dietlikon-Zurich, Switzerland.

Inventors : PHILIP RONALD PAGE & IVAN VILLAX.

Application for patent no. 843/Del/1983 filed on 6th December, 83.

Convention date 5th April, 1983/425254/(Canada).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(17 Claims)

A process for the preparation of a new stable homogeneous hydrogenation rhodium catalyst comprising the step of reacting a rhodium compound with a hydrazine compound of the formula R_1R_2N NR_3R_4, in which R_1 is a lower alkyl, phenyl, benzensulphonyl or hydrogen, and R_2R_3 and R_4 are lower alkyl or hydrogen, with the proviso that when R_1 is phenyl or benzensulphoneyl, R_2R_3 and R_4 are hydrogen, in the presence of a tertiary phosphine of the formula $PR_5R_6R_7$, in which R_5 and R_6 are phenyl, substituted phenyl in which the substituent is selected from the group comprising halo, alkyl, alkoxy and dialkylamino or dimethylamino and R_7 is phenyl, substituted phenyl in which the substituent is selected from the group comprising halo, alkyl, alkoxy and dialkylamino, alkyl, aralkyl, benzyl or dimethylamino, in an inert organic solvent at a temperature between 00C and the reflux temperature of the medium, for up to five hours, and recovering the tertiary phosphine-hydrazino-rhodium complex by any known method.

(Complete specification 28 pages Drawing 1 sheet).

CLASS : 10 E. 160451.

Int. Class : F 41 g 9/00.

"A WARHEAD FOR A MISSILE".

Applicant : SOCIETE INDUSTRIELLE DE MECANIQUE DE PRECISION AERONAUTIQUE, a French company, of 11 Chemin de Malepere 31400 Toulouse, France.

Inventor : LOUIS JEAN HENRI MAURY.

Application for Patent No. 846/Del/83 filed on 20th Dec, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(Claims 8)

A warhead for a missile, characterized in that it comprises :

—a body (10, 30) defining a chamber (15, 16, 18) having an axis (0-0),

—a hammer (100) which is housed in the chamber (15, 16, 18) and which can slide along said axis (0-0),

—first spring means (140) provided in the chamber (15, 16, 18) of the body, said first spring means (140) urging said hammer to move towards the front of the warhead,

—a primer-holder carriage (200), mounted in said body so that it can slide transverse to the axis (0-0) of the head, behind the hammer,

—at least one safety ball (130) to immobilise the hammer (100) temporarily in a rear position in which it acts as a stop for the carriage (200) in order to lock said primer-holder carriage initially in a first position wherein the primer (202) is not aligned with the hammer (100),

—second spring means (204) mounted in said body behind the hammer and urging said primer-holder carriage (200) to move towards a second position to align the primer with the hammer,

—an inertia block (150) mounted in said chamber of the body,

—third spring means (155) mounted in said chamber of the body urging said inertia block (150) to move towards the front of the warhead,

—an arming ball (160) to restrict temporarily the displacement of the inertia block (150) towards the front so that the inertia block holds the safety ball engaged with the hammer, the arming ball being displaced when the inertia block recoils during the acceleration phase to allow the inertia block to travel a greater path at the end of said accelaration phase as it returns towards the front, in order thus to free the safety ball (130), the hammer (100) and the carriage (200),

(Complete specification 26 Pages Drawing 4 sheets).

CLASS : 80 F. 160452.

Int. Class : BO1d-23/00.

"APPARATUS FOR THE UNIFORM CHARGING OF A BELT FOR CONVEYING GRANULATED SLAG".

Applicant : PAUL WURTH, S.A., of 32 rue d'Alsace, Luxembourg, Grand-Duchy of Luxembourg, a company organised under the laws of Luxembourg.

Inventor : GUIDO MONTEYNE.

Application for Patent No. 55/DEL/1984 filed on 19th January, 84.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(5 Claims)

Apparatus for the uniform charging of a belt for conveying granulated slag out of a filtration installation, comprising a mainly horizontal rotary drum provided with filter walls and with inner blades for conveying the slag upwards, after which it falls freely onto a conveyor belt passing longitudinally through the drum, and associated with at least two deflectors extending lengthwise of the belt inside the drum, characterized in that the drum is axiallay subdivided into a number of sections wherein the blades of each section are offset angularly in relation to the blades of the adjacent section or sections and wherein the lower edge of each of the deflectors is slanting in relation to the direction of movement of the conveyor belt.

(Complete specification 6 pages Drawing 2 sheets).

CLASS : 80F. 160453.

Int. Class : bold-23/00.

"FILTERING DRUM FOR A METALLURGICAL SLAG FILTERING INSTALLATION".

Applicant : PAUL WURTH S.A., of 32 rue d'Alsace, Luxembourg, Grand Duchy of Luxembourg, a company organised under the laws of Luxembourg.

Inventor : GUIDO MONTEYNE.

Application for patent no. 56/Del/1984 filed on 19th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(5 Claims)

Filtering drum for a metallurgical slag filtering installation comprising a mainly horizontal rotary drum with filtering walls, provided with internal buckets for conveying the slag upwards, after which it falls freely onto a conveyor belt passing longitudinally through the drum and discharging the filtered slag, as well as a feed channel through which the pulp, consisting of granulated slag and water, is fed into the drum characterised in that each of said bucket consists of a retaining blade and filtering blade, and wherein behind each filtering blade, as viewed in the direction of rotation, a deflector is provided which is formed by a deflecting place associated with a profiled part, the said profiled part and the said retaining blade forming the supporting framework for the drum.

(Complete specification 7 pages Drawing 2 sheets).

CLASS : 70C4. 160454.

Int. Class : C23b 5/06.

"A METHOD OF CONSISTENTLY FORMING AN ADHERENT CHROMIUM DEPOSIT ON A METAL SUBSTRATE".

Applicant : M&T CHEMICALS INC., a corporation organised under the laws of State of Delaware, U.S.A., of One Woodbridge Center, Woodbridge, New Jersey 07095, United States of America.

Inventors : HYMAN CHESSIN & EDMUND CHARLES KNILL.

Application for patent no. 96/Del/84 filed on 1st February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(9 Claims)

A method of consistently forming an adherent chromium deposit on a metal substrate comprising the steps of :

(a) plating the substrate metal with iron or an iron alloy of the kind as herein described from an iron salt containing bath for a predetermined time and at a pre-determined current density to produce an adherent iron or iron alloy plating on the substrate metal;

(b) depositing chromium on the iron or iron alloy plated metal substrate from a chromic acid bath containing a halogen releasing compound of the kind such as herein described, and chromic acid for a pre-determined time and at a pre-determined current density to produce an adherent chromium plating.

(Complete specification 17 pages)

CLASS : 176 M 160455

Int. Cl. : F 22 b 35/00, 37/44.

"SAFETY VALVE ASSEMBLY FOR BOILERS".

Applicant : BABCOCK POWER LIMITED, A BRITISH COMPANY OF MAYPOLE HOUSE, 128-132 BOROUGH HIGH STREET, LONDON SE1 1LB, ENGLAND.

Inventor : JOHN WILLIAM EDMUND CAMPBELL.

Application for Patent No. 134/DEL/84 filed on 15th February, 1984.

Convention Application No. 8304886 dated 22nd February, 1983. (G.B.).

Appropriate office for filing opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A safety valve assembly for a boiler comprising a safety valve having an outlet pipe, a vent pipe connected to said outlet pipe for receiving discharges from said outlet pipe, said outlet pipe having a discharge mouth connected coaxally with said vent pipe for directing expanding jet of relief steam along said vent pipe said discharge mouth being in the form of or being provided with an expanding nozzle for accelerating the expanding relief steam jet, said nozzle being frustoconical and having walls diverging at an included angle of between approximately 12° (0.2 steradian) and 60° (1 steradian) said expanding nozzle also having a lip which is closely spaced from the vent pipe wall , said vent pipe having a smooth constriction, displaced downstream of the discharge mouth for producing a reduction in relief steam flow velocity from supersonic to subsonic velocity, said smooth constriction reducing the internal diameter of the vent pipe by between approximately 5% and 10%.

(Complete specification 8 pages.) (Drawing 1 sheet)

CLASS : 127 I & 134 B. 160456

Int. Cl. : B 62m — 9/00

"TRANSMISSION DEVICE IN COMBINATION WITH DRIVE SHAFT AND DRIVEN SHAFT FOR CONTINUOUSLY VARYING THE TRANSMISSION RATIO BETWEEN THE DRIVE SHAFT AND DRIVEN SHAFT".

Applicant : PIAGGIO & C.S.P.A., A COMPANY ORGANISED UNDER LAWS OF THE ITALIAN REPUBLIC OF VIA A. CECCHI 6, GENEVA, ITALY.

Inventor : BRUNO GADDI.

Application for Patent No. 166/DEL/1984 filed on 24th February 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A transmission device in combination with a drive shaft and a driven shaft for continuously varying the transmission ratio between said drive shaft and said driven shaft; comprising :

(a) a transmission operating element for varying said transmission ratio;

(b) a shank in engagement through a gear train with said driven shaft, one end of said shank being connected to said operating element, the opposite end of said shank being connected to means for displacing said shank;

(c) a speed sensor mounted on said shank, said speed sensor being sensitive to the angular speed of said shank;

(d) a bushing slidably mounted on said shank and connected to said speed sensor; and

(e) an yieldable member connected to said bushing and means for sensing torque ransmitted to said drive shaft abutting said yieldable member to control the force of said yieldable member on said bushing, said yieldable member providing force on said bushing in opposition to force on said bushing exerted by said speed sensor to thereby reposition said transmission operating element and to effect a transmission ratio change which maintains the rotational speed of said drive shaft substantially constant.

(Complete specification 17 pages.) (Drawing 4 sheets)

CLASS : 70A. 160457

Int. Cl. : H01m 13/00.

"AN ELECTROCHEMICAL CELL".

Applicant : DURACELL INTERNATIONAL INC., OF BERKSHIRE INDUSTRIAL PARK, BETHEL, CONNECTICUT 06801, U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventors : WILLIAM LEE BOWDEN, LUVERNE HARLEIGH BARNDETTE & DAVID LEIGH DEMUTH.

Application for patent No. 178/DEL/84 filed on 28th February, 84.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

An electrochemical cell comprising an anode of a metal selected from alkali and alkaline earth metals, a solid active cathode comprised of one or more heavy metal polysulfides of the general formula $M_x (S_y)_z^{m \cdot -2}$ wherein M is a heavy metal, S is sulfur, m represents the valence state or charge on the heavy metal atom, y represents the number of sulfur atoms in the poly-sulfide, x and z represent the stoichiometry of the heavy metal cation and the polysulfide anion respectively, provided that $mx = 2z$ and y is at least 2; and an electrolyte of the kind such as herein described.

(Complete specification 10 pages).

CLASS : 32 B, 40 B & 56 B. 160458

Int. Cl. : B01j — 11/00.

'A PROCESS FOR HYDROCARBON CONVERSION'.

Applicant : UOP INC., A CORPORATION ORGANISED IN THE STATE OF DELAWARE, WITH ITS PRINCIPAL PLACE OF BUSINESS AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS 60016, U.S.A.

Inventor : LEE HILFMAN.

Application for Patent No. 238/Del/1984 filed on 14th March, 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A process for hydrocarbon conversion which comprises contacting hydrocarbon such as herein described at a pressure from atmospheric pressure to 3000 psig 20,700 KPa gauge) and a temperature from 500°F to 1100°F (260°C to 590°C) with a satalyst comprising silica and a stabilized Y xeolite which is an organophilic zeolitic aluminosilicate having a chemical $Sio_2/A1_2O_3$ molar ratio of from 4.5 to 6 the essential x-ray powder diffraction pattern of zeolite Y, a BET surface area of at least 350m2/g and an adsorptive capacity for water vapor at 25°C and a water vapour pressure of 2.4 Torr of from 6 to 12 wt. percent.

(Complete specification 17 pages).

CLASS : 98 I. 160459

Int. Cl. : F 24 j 3/02.

"A DEVICE FOR RECEIVING SOLAR ENERGY FOR USE IN SOLAR ENERGY CONVERSION SYSTEM".

Applicant : SULZER BROTHERS LIMITED, OF CH-8401 WINTERTHUR SWITZERLAND, A SWISS COMPANY.

Inventor : HANS FRICKER.

Application for patent No. 306/Del/84 filed on the 9th April, 84.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A device for receiving solar energy for use in a solar energy conversion system, said device comprising a housing having a duct with an inlet for receiving radiant solar energy a loose fibrous absorber structure provided within said duct inlet-to absorb the radiant solar energy; and suction means located in said housing and connected to said duct for conveying air as cooling medium through said loose structure to absorb heat therefrom.

(Complete specification 14 pages). (Drawing sheets 2)

CLASS : 136 c 160460

Int. Cl. : B 30 b 11/22, B29f, 3/02

"DEVOLATILIZING APPARATUS' FOR DEVOLATILIZING AND MIXING POLYMERS".

Applicant : USM CORPORATION, A CORPORATION DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW JERSEY AND HAVING A PRINCIPAL PLACE OF BUSINESS AT 426 COLT HIGHWAY, FARMINGTON, CONNECTICUT 06032, U.S.A.

Inventors : PETER HOLD, MARC ANTHONY RIZZI.

Application for patent No. 344/Del/84 filed on the 19th April, 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

Devolatilizing apparatus, characterized in that it comprises a barrel housing (26) having an axial bore (30) at least one helical channel (28) formed on the surface of said axial bore, a cylindrical rotor (32) coaxially mounted in the bore (30) and closing the open side of the channel (28) to form a helical passage (29), means (58) for directing fluid plastic into one end of the passage (29) in an amount less than the volumetric capacity of the passage the rotor (32) moving the limited volume of the plastic against and along one side of the passage (29) in a rolling bank (65) in said passage, a port (40) extending through the housing (26) and into an unoccupied part of the passage (29) adjacent the rolling bank (65) for withdrawing volatiles.

(Complete specification 14 pages) (Drawing 3 sheets)

CLASS : 127I, 129CFG. 160461.

Int. Cl. : B23b.

TOOL PART IN COMBINATION WITH A CONNECTING SHAFT OF A MACHINE TOOL.

Applicant : HEINZ KAISER AKTIENGESELLSCHAFT, A SWISS COMPANY, OF GLATTALSTRASSE 837, 8153 RUMLANG, SWITZERLAND.

Inventors : DIETER PAPE, HANS WOERZ & HEINZ KAISER.

Application for Patent No. 389/Del/84 filed on 8th May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

Tool part in combination with a connecting shaft of a machine tool the tool part being for example a boring head, cutting edge-holder, tool holder, milling cutter holder or chuck, said tool part having a fastening spigot, which penetrates into a bore of the connecting shaft and has a conical transverse bore with which a retaining screw engages in such a way that the tool part is tightened by wedge action against the connecting shaft, wherein a transverse bore, running approximately at right angles to the conical transverse bore and having a drive pin supported for longitudinal displacement within that transverse bore, is provided in the fastening spigot, the ends of the drive pin penetrating into recesses of the connecting shaft, which recesses become narrower in the radially outward direction.

Compl Specn. 10 pages. Drgs. 4 sheets.

CLASS : 83 B_R. 160462.

Int. Cl. : A23g 3/00.

PROCESS FOR PREPARING A CENTER-FILLED CHEWING GUM PIECE.

Applicant : WARNER-LAMBERT COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 201 TABOR ROAD, MORRIS PLAINS, NEW JERSEY 07950, U.S.A.

Inventors : THOMAS JOSEPH CARROLL, VINCENT GEORGE CORSELLO, MICHAEL GLASS AND DOMINIC JOSEPH PICCOLO.

Application for Patent No. 203/DEL/1984 filed on 6th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

20 Claims

A process for preparing a center-filled chewing gum piece having an outer-shell of the kind such as herein described and a cavity enclosed therein, said cavity containing a powdered center-fill comprising atleast one sweetner and lubricant both of the kind such as herein described comprising the steps of :

(i) preparing a chewing gum composition containing gum base, corn syrup softner of the kind such as herein described and sugar;

(ii) preparing said powdered center-fill by admixing the sweetner and the lubricant;

(iii) extruding a rope of hollow chewing gum composition through orifice;

(iv) feeding a stream of powdered center-fill through an orifice to the hollow center downstream of the orifice by means of a conduit tube extending from a reservoir into the extruder tube;

Wherein the air is vented from said hollow center prior to entry of the powdered center-fill and the conduit tube is not concentric with the extruder.

Compl. Specn. 19 pages.

CLASS : 206E. 160463.

Int. Cl. : G05f 1/00.

STABILIZED MICROWAVE POWER AMPLIFIER SYSTEM.

Applicant : VARIAN ASSOCIATES, INC., 611 HANSON WAY, PALO ALTO, CALIFORNIA, 94303 U.S.A. A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE.

Inventor : LARRY EARL SIEGEL, JOHN MILAN PAVKOVICH, & GEORGE EDWARD JAHN.

Application for Patent No. 217/Del/84 filed on 8th March, 84.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

15 Claims

A stabilized microwave power amplifier system for use with a regulated voltage supply, and system furnishing a regulated voltage, and system comprising :

aklystron amplifier tube;

solid-state preamplifier means connected to said klystron for driving it, said preamplifier having a variable gain as a function of temperature;

means connected to output terminal of the klystron for periodically campling the actual microwave output power from said klystron;

means connected to said sampling means for converting the said periodic sample to a digital signal representing said actual output power;

microprocessor means connected to said converting means for comparing said digital signal to digital reference signals representative of a reference output power level and generating digital correction signals;

first solid-state variable attenuator means connected in series with said preamplifier means and the microprocessor means for varying the gain of the said preamplifier in response to said correction signals;

means for furnishing a compensation voltage varying inversely to said variable gain in response to changes in ambient temperature, said means accepting said regulated voltage for reference purposes;

second solid-state variable attenuator means connected in series with said preamplifier means and compensation voltage furnishing means and responsive to said compensation voltage for carrying the gain of said preamplifier accordingly;

whereby the voltage of said output power is stabilized at said reference power level.

Compl. Specn. 15 pages. Drgs. 2 sheets.

CLASS : 40E. 160464.

Int. Cl. : C02b 1/00.

A PROCESS FOR PRODUCING PURIFIED WATER BY TREATMENT OF THE WASTE WATER RELEASED DURING THE PRODUCTION OF PHOSPHORIC ACID.

Applicant : KRUPP KOPPERS GMBH, A GERMAN COMPANY, OF MOLTKESTRASSE 29, D-4300 ESSEN 1, WEST GERMANY.

Inventors : HANS WERNER GOSCH & JORG KOHLBECKER.

Application for Patent No. 219/Del/84 filed on 8th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A process for producing purified water by treatment of the waste water released during the production of phosphoric acid by wet digestion of phosphate rock with sulfuric acid, the gypsum mud from the digestion of the phosphate rock being dumped in liquid form, part of said purified water being recycled into the process as wash water while the remaining part of the purified water being used as cooling or boiler water, the process characterised by the steps of

subjecting the waste water from the gypsum mud dump to a first neutralisation step by adding thereto calcium ions and bringing its pH to a range of 2.5 to 4.5, separating the mud thus precipitated, subjecting said neutralised water to a second neutralising step to raise its pH to 9 to 13 by adding calcium ions thereto, again separating the mud so separated, recycling the purified water to the filteration step of phosphoric acid production process, treating the muds from the two neutralisation steps to a drying step after subjecting it to any conventional mechanical dewatering, subjecting the excess of purified water to an evaporation step and recycling the distillate so produced to be used as fresh cooling or boiler water.

Compl. Specn. 9 pages. Drgs. 1 sheet.

CLASS : 32E. 160465.

Int. Cl. : C08f 3/20.

IMPROVED PROCESS FOR THE MANUFACTURE OF HALOGENATED POLYMERS.

Applicant : EXXON RESEARCH AND ENGIEERING COMPANY, A CORPORATION OF DELAWARE, UNITED STATES OF AMERICA, CARRYING ON BUSINESS AS A COMPANY FOR THE HOLDING OF PATENTS AND GRANTING LICENSES THEREUNDER, AND TECHNICAL DEVELOPMENT AND RESEARCH WORK AT 180 PARK AVENUE, FLORHAM PARK, NEW JERSEY, UNITED STATES OF AMERICA.

Inventors : RONALD CHARLES KOWALSKI, WILLIAM MYERS DAVIS, NEIL FREDERICK NEWMAN & LEWIS ERWIN.

Application for Patent No. 228/Del/84 filed on 13th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

31 Claims

A process for the continuous production of halogenated polymer wherein polymer and halogenating agent are contacted wherein said polymer and said halogenating agent are present during contact as either co-continuous phases or wherein said halogenating agent is present as a continuous phase and said polymer is present as a discontinuous phase and said polymer is subjected to deformation and the by-product of the halogenation reaction and unreacted halogenating agent are disengaged in a manner such as herein described from said halogenated polymer.

Compl. Specn. 32 pages.

CLASS : 129 J & $157D_4$. 160466.

Int. Cl. : B21b 13/00.

PROCESS FOR THE FORMATION OF A RAILBLANK.

Applicant : SACILOR, A FRENCH COMPANY, OF 6, RUE DE WENDEL 57700 HAYANGE, FRANCE.

Inventor : JACQUES MICHAUX.

Applicaion for Patent No. 248/Del/84 filed on 20th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A process for the formation of a railblank from an initial section of rectangular cross-section wherein said formation is effected with the assistance of a universal stand having horizontal and vertical rolls which process comprises the steps of (a) in a first series of passes, cutting into that portion of said section which will form the web of the railblank by said horizontal rolls and simultaneously reducing that portion of the section which will form the head of the railblank by one of said vertical rolls and (b) thereafter in succeeding passes, simultaneously reducing those portions of the section which will form the head flank portions of the railbank by said horizontal rolls and those portions which will from the base of said railblank by one of said vertical rolls, the other vertical roll remaining inactive.

Compl. Specn. 11 pages. Drgs. 3 sheets.

Class : 27 F & 129 J. 160467.

Int. Cl. : B21b 1/08.

PROCESS FOR FORMING IN TWO SERIES OF PASSES A ROUGH H OR I TYPE METAL BEAM.

Applicant : SACILOR, A FRENCH COMPANY, OF 6, RUE DE WENDEL 57700 HAYANGE, FRANCH.

Inventor : JACQUES MICHAUX.

Application for Patent No. 249/Del 84 filed on 20th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A process for forming in two series of passes a rough H or I type metal beam starting with an initial section of rectangular or trapezoidal cross-section comprising :

(a) in a first said series of passes, recessing the web forming portion by means of horizontal rolls of a universal stand acting on the central portion of the initial section, and

(b) in a second series of passes simultaneously reducing the web and flanges by means of horizontal rolls and vertical rolls of the universal stand, respectively.

Compl. Specn. 26 pages. Drg. 9 sheets.

Class : 32B & 84B. 160468.

Int. Class : C101-1/00.

"A PROCESS FOR PRODUCING GASOLING FROM A HIGH GRADE FATTY ACID GLYCERIN ESTER OBTAINED FROM BIOMASS".

Applicant : HONDA GIKEN KOGYO KABUSHIKI KAISHA, a Japanese Company, of 27-8, Jingumae 6-chome, Shibuya-ku, Tokyo, Japan.

Inventors : YASUO TAKABORI, YOSHIHISA SAEKI, TOHRU TOMII & TSUGUO KIMURA.

Application for patent No. 254/Del/1984 filed on 22nd March 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

13 Claims

A process for producing gasoline from a high grade fatty acid glycerin ester such as herein defined obtained from biomass such as herein defined said gasoline having an octane number greater than 90 said process comprising the steps of catalytically cracking said high grade fatty acid glycerin ester with a catalyst having a carrier which contains Y zeolite alumina-silica in a crystalline form and removing impurities in any known manner from the cracked mixture thus obtained to leave gasoline.

(Complete specification 14 pages).

Class : 146E. 160469.

Int. Class : G01h 1/00.

"A METHOD OF PRODUCING EROSION RESISTANT THERMOCOUPLE HOUSING".

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, a Corporate Research & Development, 18-20 Kasturba Gandhi Marg New Delhi-110 001, A Government of India undertaking.

Inventor : Ravindra Hiralal Auluck, Shailendra Sharma, Suravarapu Venkata Krishna Rao, Puthenmadom Rama Iyer Krishnamoorthy.

Application for patent No. 266/Del/1984 filed on 27th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

A method of producing an erosion resistant housing for a thermo couple having a housing part and a body part, comprising forming the housing part of a ceramic material selected from a group consisting of tungsten carbide, alumina and zirconia by compaction in a mould by an isoslatic press and sintering the moulded material in vacuum or an atmosphere of hydrogen at a temperature 1200°C to 1500°C and securing the housing thus formed removably to the body part by pressing or mutually engaging internal and external threads formed in the housing and the body part respectively.

(Complete Specification 7 Pages) (Drawing Sheet 1).

Class : 69N. 160470

Int. Class : H01t 1/00.

"IMPROVED METHOD OF PREPARING SPARKS GAP ELECTRODE".

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, Corporate Research & Development 18-20, Kasturba Gandhi Marg, New Delhi-110 001, A Government of India Undertaking.

Inventor : Ravindra Hiralal Auluck, Shailendra Sharma and Puthenmadom Rama Iyer Krishnamoorthy.

Application for patent No. 267/Del/1984 filed on 27th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims

A method for preparing improved spark gap electrode which comprises mixing powedrs of Tungsten, Molybdenum and copper in amount of 60 to 80% Tungsten, 10 to 30% Molybdenum and 10 to 30% copper based on the total weight of mixture, making a thorough blend thereof, subjecting the blend to pressing to the shape of electrodes and to sintering at a temperature of 1200°C—1500°C in an atmosphere devoid of oxygen followed by cooling of sintered electrodes in the absence of oxygen.

(Complete specification 9 pages).

Class : 83B5. 160471

Int. Class : A23g 3/00.

"A PROCESS FOR PREPARING A FLAVORED CHEWING GUM COMPOSITION".

Applicant : WARNER LAMBERT COMPANY, of 201 Tabor Road, Morris Plains, New Jersey 07950, USA., a corporation organised and existing under the laws of State of Delaware, USA.

Inventors : SUBRAMAN RAO CHERUKURI, KENNETH PAUL, BILKA FRANKE HRISCISCE & DOMINIC JOHN PICCOLO.

Application for patent No. 278/Del/84 filed on 28th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(11 Claims)

A process for preparing a flavored chewing gum composition which comprises admixing a chewing gum base such as herein defined at a temperature from 7°C to 120°C with a flavoring agent, of the kind such as herein described, continuing the mixing until a uniform mixture of gum base and flavoring is obtained and thereafter forming the mixture into suitable chewing gum shapes, said flavoring agent comprising artificial, natural or synthetic flavoring agents and said chewing gum base of the kind such as herein described.

(Complete specification 26 pages).

Class : 35C & 35D. 160472.

Int. Class : C04 B-7/56.

AN ADDITIVE COMPOSITION FOR CEMENT SLURRY FOR LINING OIL AND NATURAL GAS WEELS AND A PROCESS FOR THE PREPARATION THEREOF.

Applicant : OIL & NATURAL GAS COMMISSION, INSTITUTE OF DRILLING TECHNOLOGY, KAULAGARH ROAD, DEHRADUN, INDIA, AN INDIAN INSTITUTE.

Inventors : JATINDER PETERS.
BANSH NARAYAN YADAV
KRISHNA KUMAR ARORA.

Application for Patent No. 028/DEL/1984 filed on the 9th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(6 Claims)

An additive composition for use in a cement slurry used for lining oil and natural gas wells, for reducing loss of fluid in the slurry consisting of a composition containing a dispersant consisting of a condensate of sulphonated naphthalene and formaldehyde and a permeability reducer consisting of polyethylene glycol mixed together in the ratio of 2 : 1 to 3 : 1 by weight.

(Complete Specification 08 pages).

Class : 16C & G. 160473.

Int. Class : F16g 3/00.

"LINK BELTS".

Applicant : SCAPA PORRITT LIMITED, a British company, of Cartmell Road, Blackburn, Lancashire, BB2 2SZ, England.

Inventor : RICHARD THOMAS GEOFFREY LORD.

Application for patent No. 52/Del/84 filed on 18th January, 1984.

Convention date 26th January, 1983/8302118/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

13 Claims

A link belt comprising a multiplicity of helical coils arranged in interdigitated side-by-side disposition and respective hinge wires connecting successively adjacent coils, the respective coils being of an elongate synthetic plastics material of non-circular transverse cross-section, with the said cross-section having major and minor dimensions respectively extending generally in the plane and generally perpendicular to the plane of the link belt, the major cross-sectional dimension extending in the axial direction of the coil, and the coils satisfying the relationship $\frac{4 < a^2 x}{L^3}$ where a is the transverse cross-sectional area of the elongate material and L is the major internal dimension of the coil.

(Complete specification 15 pages. Drawing 1 sheet)

Class : 32A & R_1. 160474.

Int. Class : C07c-79/12.

"IMPROVED PROCESS FOR THE PREPARATION OF META-NITRO-CHLORO-BENZENE".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Rafi Marg, New Delhi-110001, India, an Indian Registered body incorporated under the Registration of Societies Act (Act XXI of 1960).

Inventors : SAJID HUSAIN, ALLURE SUDHAKAR RAO BURHAN HUSAIN, SALMA JALEEL HASAN, KUPPILI BHIMA SANKARA PRASAD AND RAJAGOPALAN VAIDYESWARAN.

Application for Patent No. 62/DEL/1984 filed on 21st January 1984.

Complete specification left on 7th February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

7 Claims

An improved process for the production of pure metanitrochlorobenzene characterised in that chlorine gas is contacted with moist nitrobenzene containing iodine in a tubular recycle reactor packed with freshly exposed iron Rasching ring at a temperature range of 40-80°C followed by separation of chloro isomers of nitrobenzene by fractional distillation and purification by known process.

(Provisional Specification 6 pages).

(Complete specification 7 pages).

Class : 32E. 160475.

Int. Class : C08f 27/00.

"A PROCESS FOR THE PREPARATION OF ADVANCED COMPOSITES HAVING IMPROVED IMPACT RESISTANCE AND HIGH COMPRESSIVE STRENGTH".

Applicant : UNION CARBIDE CORPORATION, Manufacturers, a corporation organised under the laws of the State of New York, U.S.A. with offices at Old Ridgebury Road, Danbury, State of Connecticut 06817, U.S.A.

Inventors : BUGH CHESTER GARDNER MICHAEL JOHN MICHNOT, GEORGE LEWIS BRODE & ROBERT JAMES COTTER.

Application for patent No. 87 Del/84 filed on 30th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

35 Claims

A process for the preparation of advanced composites having improved impact resistance and high compressive strength which comprises reacting a diamine hardener represented by the general Formula 1 wherein the X's are independently selected from a direct bond, O,S,SO_2, CO, COO, $C(CF_3)_2$, $C(R_1"_2)_2$ wherein R_1 and R_2
are independently hydrogen or alkyl of 1 to 4 carbon atoms, with a thermoplastic polymer such as herein described, adding to the product so obtained an epoxy resin containing two or more 1, 2-expoxy groups per molecule, and curing the mixture at a temperature between 100°C to 500°C.

(Complete specification 33 pages. Drawing 6 sheets)

Class : 152A. 160476

Int. Class : B28b 1/24.

"A PROCESS FOR THE INJECTION MOLDING OF SHAPED ARTICLES".

Applicant : WARNER LAMBERT COMPANY, of 201 Tabor Road, Morris Plains, New Jersey 07950, U.S.A., a corporation organised and existing under the laws of State of Delaware, U.S.A.

Inventors : FRITZ WITTWER & IVAN TOMKA.

Application for patent No. 100/Del/84 filed on 2nd February 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A process for the injection molding of shaped articles made from native starch and water optionally containing inert known additives such as herein described comprising :

plasticizing said starch with water, whereby the water content is in the range of 5—30% by weight (calculated to the weight of the sum of all the component) at a temperature of 80—240°C and injection molding said starch at a temperature of 80—240°C and at a pressure from 600 × 10^5 to 3000 × 10^5 Newton/Square meter into a cooled mold and

ejecting the solid product from the mold.

(Complete specification 35 pages Drawing 3 sheets)

Class : 70 C. 160477

Int. Class : B 01 k 3/00.

"ABUSE RESISTANT NON-PRESSURISED ELECTROCHEMICAL CELLS AND METHOD OF MANUFACTURING THE SAME".

Applicant : DURACELL INC., of Berkshire Industrial Park, Bethel, Connecticut 06801, U.S.A., a corporation organised under the laws of the State of Delaware, U.S.A.

Inventor : ALWYN HENRY TAYLOR and SUSAN ELAINE BASCOM.

Application for Patent No. 104/DEL/84 filed on 3rd February 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An abuse resistant non-pressurized electrochemical cell comprising of an alkali or alkaline earth metal anode, a solid active cathode and an organic electrolyte salt solvent characterised in that said cell has a vent of the kind such as herein described for release of pressure and at least 80% by volume of said organic electrolyte salt solvent being comprised of an organic volatile compound having a boiling point between 30° to 130°C.

(Complete Specification 12 Pages).

Class : 130 I. 160478.

Int. Cl. : C22b—3/00; 23/04 and 15/00.

AN IMPROVED PROCESS FOR THE EXTRACTION OF COPPER, NICKEL, COBALT AND MANGANESE METAL VALUES FROM DEEP SEA MANGANESE NODULES.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001. Indian, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : BONTHA RAMACHANDRA REDDY, BHASKARA VENKATA RAMANA MURTHY AND PRAFULLA KUMAR JENA.

Application for Patent No. 117/Del/1984 filed on 7th February 1984.

Complete specification left on 18th March 1985.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi-5.

9 Claims

An improved process for the extraction of copper, nickel cobalt & manganese metal values from deep sea manganese nodules which comprises grinding the nodules and throughly mixing it with a carbonaceous material, heating the mixture to a temperature between 200—400°C, passing dry chlorine gas, leaching the roasted mass with water and extraction of the metal values by conventional methods.

(Provisional specification 5 pages).

(Complete specification 6 pages).

Class : 130 I. 160479

Int. Cl. : C01g—3/00; 51/00; 53/00.

"AN IMPROVED PROCESS FOR THE EXTRACTION OF COPPER, NICKEL AND COBALT METAL VALUES FROM DEEP SEA MANGANESE NODULES".

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : Yeeramsetti Venkata Swamy, Anil Kumar Tripathy and Prafulla Kumar Jena.

Application for Patent No. 120/Del/1984 filed on 7th February, 1984.

Complete specification left on 18th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A process for the extraction of copper, nickel, cobalt and manganese values from deep sea manganese nodules comprises roasting the nodules at a temperature between 250°—600°C with sulphur dioxide and air mixture cooling the mixture and leaching with water and separating the values by conventional method.

Prov. Specn. 4 pages.

Compl. Specn. 5 pages.

Class : 14A2. 160480

Int. Cl. : C23b 5/00.

"A NON-AQUEOUS, RECHARGEABLE ELECTRO-CHEMICAL CELL".

Applicant : STANDARD OIL COMPANY, a corporation of the State of Indiana, U.S.A. of 200 East Randolph Drive, Chicago, Illinois 60601, United States of America.

Inventors : KEITH BURNS PRATER, ROBERT JAMES THRASH & JOHN FRANCIS CONNOLLY.

Application for Patent no. 156/Del/84 filed on 22nd February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A non-aqueous, rechargeable electrochemical cell comprising :

(a) an active metal anode;

(b) a positive electrode current collector; and

(c) an electrolyte comprising a salt of said active metal, an ionizing solvent comprising sulfur dioxide, and a supporting electrolyte salt comprising at least one component of the general form R^+X^- wherein R^+ is a cation different from the cation of said active metal, an X^- is an anion which forms a salt with the cation of said active metal which is less soluble in said cell than R^+X^- wherein the saturated concentration of said active metal cation in said electrolyte is between 10^{-1} eq/l and 10^{-4} and said electrolyte is substantially saturated with respect to the active metal cation, whereby an insoluble product is formed at the anode upon discharge of the cell.

Compl Specn. 43 pages.

Class : 152 E. 160481

Int. Cl. : C08d-13/00.

"ELASTOMERIC COMPOSITION".

Applicant : UNIROYAL, INC., a corporation organised under the laws of the State of New Jersey, one of the United States of America, having an office at 1230 Avenue of the Americas, New York, New York-10020, U.S.A.

Inventors : Arnis Uvi Paeglis.

Application for Patent No. 174/Del/1984 filed on 28th February 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5, 110005.

25 Claims

An elastomeric composition comprising :

100 parts of a neutralized sulfonated elastomeric polymer containing 10 to 50 milliequivalents neutralized sulfonate groups per 100 grams of elastomeric polymer, said neutralized sulfonate groups containing a cation selected from the group consisting of ammonium, antimony, aluminium, iron, lead, a metal of Group IA, IIA, IB or IIB of the Periodic Table of Elements and mixtures thereof;

40 to 250 parts of a non-polar process oil;

5 to 50 parts of a preferential plasticizer selected from the group consisting of a basic salt of a carboxylic acid having 2 to 30 carbon atoms, said salt containing a cation selected from the group consisting of antimony, aluminum, iron, lead, a metal of Group IA, IIA, IB or IIB of the Periodic Table of Elements and mixtures thereof and an organic amide having the formula $R^1CONR^2R^3$ where R_1 is an aliphotic group and R^2 and R^3 are the same or different and are hydrgone, aikyl, aryl, aralkyl or the group $-CH_2NHOCR^1$, and where at least one of R^1, R^2 and R^3 has at least 5 carbon atoms; and

at least 65 parts of carbon black;

all said parts being by weight.

Compl. Specn. 26 pages.

Class : 4 A4, 6 A2 & 40 H. 160482

Int. Cl. : A 62 b - 11/00 & B 64 d -13/00.

"MOLECULAR SIEVE TYPE GAS SEPARATION SYSTEMS".

Applicant & Inventor : NORMALAIR-GARRETT (HOLDINGS) LIMITED, Westland Works, Yeovil, Somerset, England, A British Company.

Application No. 221/MAS/84 filed March 30, 1984. Convention Date on 15th June, 1983/8316294/U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

A molecular sieve gas sepration system adapted to deliver enriched product gas to an outlet, the system comprising at least one sieve bed, a sequencer unit for cyclically subjecting said bed to a charge/adsorption on-stream phase followed by a purge/desorption regeneration phase and arranged to provide that for a predetermined range of ambient atmospheric pressure the relative durations of the said phases are fixed, and a vent valve on the bed arranged to provide that during the said regeneration phase the gas pressure in the bed at least substantially equals the ambient atmospheric pressure or a pressure related thereto, characterised by a partial pressure sensor responsive to the concentration value of a desired constituent gas in the product gas delivered to the outlet and operatively connected to the sequencer unit for switching the sequencer unit to change the overall cycle time in response to a change in the concentration value so as to maintain the concentration within predetermined limits.

Complete specn. 19 pages Drg. 6 sheets.

Class : 105 B. 160483

Int. Cl. : D 21 g 1/00.

CALENDARY ASSEMBLY.

Applicant : RAO V. ANGARA, of 156 MINERAL SPRINGS AVENUE, PASSAIC, NEW JERSEY 07055, United States of America, a U. S. Citizen.

Application No : 234/MAS/84 filed 4th April 1984.

Appropriate office for opposition preceeding (Rule 4, Patent Rule 1972) Patent Office, Madras Branch.

10 Claims

A calender assembly comprising a rotatable calender year member having fourteen different calender year systems mounted coaxially or in tandem with a rotating calender indexing member to index the year number corresponding to the desired year; rotating the calender year system to the selected number to ascertain the day of the week of any day of the month of the desired year.

Complete specification 10 Pages. Drgs. 10 Sheets.

CLASS : 131-A_2 & 131A_3 160484

Int. Cl. : E 21 b 47/00.

A DEVICE FOR CARRYING OUT MEASUREMENTS IN A WELL.

Applicant : INSTITUT FRANCAIS DU PETROLE, a French Body Corporate of 4, avenue de Bois Preau, 92502 RUEIL MALMAISON, FRANCE.

Inventor : CHRISTIAN WITTRISCH.

Application No. : 238/MAS/84 filed 5th APRIL 1984.

Appropriate Office for opposition preceeding (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

8 Claims

A device for carrying out measurements in a well extending from a surface of the earth, said device comprising a tubing of a diameter less than that of the well, at least one measuring or operating instrument, at least one sealing member surrounding a lower portion of said tubing, a support member located above said instrument and supported by said tubing, and a flexible connecting member comprising at least one electrical connection, said flexible connecting member connecting said support member to said instrument, and said tubing extending from the surface to a position within said well above a working position of said instrument further comprising means for subjecting a zone of said well to hydraulic compression, said tubing being open at a lower end and means actuated at the surface to cause said at least one instrument to move between a first position in which said instrument is housed in a lower portion of the tubing that forms a protecting casing and a second position in which said instrument is at least partially out of said tubing available to effect said measurements or operations, an electrical transmission cable equipped with an electric connecting member adapted to be moved in the tubing for connection with the electrical connection connected to said instrument, said at least one sealing member being an annular member having an axial passage through which passes the flexible connecting member, said flexible connecting member further comprising an electric cable connected to said instrument.

Complete Specification 23 Pages. Drgs. 5 Sheets.

CLASS. : 206 E & 65 A4 160485

Int. Cl. : H 03 k 13/00.

SWITCHING AMPLIFIER FOR DIGITAL POWER AMPLIFICATION.

Applicant : BBC BROWN, BOVER I & COMPANY LIMITED, of CH-5401, BADEN, Switzerland, a Swiss Company.

Inventor : ANDREAS FURRER.

Application No. : 253/MAS/84 filed 10th April 1984.

Appropriate office for opposition preceeding (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

9 Claims

A switching amplifier for digital power amplification of an analog input signal, provided with a signal converter(1) and a plurality of similar, series-connected switching stages (S1... S6) in which arrangement the signal converter(1) subdivides the imput signal range (ESB) into a number of equal voltage steps (V1....V6) corresponding to the number of switching stages (S1....S6) continuosly samples the analog input signal via an input(14) and at an output (A1) outputs control commands to the switching stages (S1....S6) in such a manner that with a change in the amplitude(ui) of the input signal by voltage step(V1....V6), one switching stage(S1....S6) in the series circuit is switched in or out and the driving of the switching stages (S1....S6) by the signal converter (1) is carried out via a drive unit (2) which drive unit (2) comprises means for electing predetermined ones of the switching stages (S1....S6) to be switched on or off and for redetermining before each switching process the association between voltage step (V1....V6) and switching stage (S1....S6).

Compl. Specn. 18 pages. Drgg. 5 sheets.

CLASS : 125 H (3) 160486

Int. Cl. : B 05 b 1/00.

"APPARTUS FOR DISPENSING COLD PRODUCTS".

Apllicant & Inventors : Ronald L. Abbott of P.O. Box 33976, Station D, Vancouver, British Columbia, Canada, of Canadian Nationality.

Applicantion for Patent No. 261/Mas/84 filed on 12th April, 1985.

Convention date on 21st June, 1984/359071, (CANADA)

Divisional of Application No. 956/Cal/81 filed on 26th August 1981 (154277).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Madras Branch.

13 Claims

Apparatus for producing and dispensiong cold products, as hereindescribed comprising

a forming wall,

refrigerating means for maintaining the forming wall near or below freezing temperature,

a scraper member having a scraper retained in scraping engagement with the wall,

power means for creating relative movement between the scraper and the wall at a constant speed,

a first spray nozzle mounted adjacent the forming wall and directed towards said wall,

supply means for selectively making available for the spray nozzle a predetermined quantity of a substance in fluid from and at a predetermined and constant pressure, and

control means known per se operable to supply said substance at the constant pressure to the nozzle during relative movement between the scraper member and the wall said nozzle spraying the substance at an even rate over the forming wall during said relative movement, and said sprayed substance being formed in an even layer as result of even rate of spraying on the wall and being scraped off the wall gy the said scraper,

a second spray nozzle movable with the scraper member and directed towards the scraper, and

means for selectively supplying a cleansing fluid to the second nozzle spraying thhe fluid over the bottom of the scraper member and the scraper to clean them.

Compl. Specn. 16 pages. Drg. 1 sheet.

CLASS : 131-B3. 160487

Int. Cl. : E 0 1 g 3/02.

"APPARATUS FOR TUNNELING A SHIELD".

Applicant : KBAUSHIKI KAISHA ISEKI KAIHATSU KOKI, a Japan company, of 23-3, Ichiban-cho, Chiyoda-ku, Tokyo, JAPAN.

Inventor : TOSHIO AKESAKA.

Application No. 262/MAS/84 filed 12th April 1984.

6 Claims

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Madras Branch.

An apparatus for tunneling a shield comprising; an eccentric collar supported rotatably by a partition well extending across the interior of a shield body, said eccentric collar being connected to first drive mechanism; a crank shaft connected to a second drive mechanism an da conical o. frustoconical rotary head supported rotatably by an opposite end portion of said crank shaft; said eccentric collar being provided to rotate said crank shaft eccentrically with respect to said shield to provide a space for said shield by compacting ground disposed ahead of said rotary head whereby as the shield is advanced into said space a protective zone is fromed around the shield.

Compl. Specn. 14 pages. Drg. 4 sheets.

CLASS : 70 A & 70 B. 160488

Int. Cl. : B 01 k 3/00.

"AN ELECTROLYTIC CELL FOR ELECTROLYSIS OF AN AQUEOUS ALKALI METAL HALIDE SOLUTION".

Applicant : KANEGEFUGHI KAGAKU KOGYO CABUSHIKI KAISHA, OF 2—4, 3-CHOME, NAKANOSHIMA, KITA-KU, OSAKA, JAPAN, A JAPANESE COMPANY.

Inventors : (1) YASUSHI SAMEJIMA,

(2) MINORU SIGHA,

(3) TOSHIH KANO AND,

(4) KIYOSHI YAMADA.

Application No. 266/MAS/84 filed April 16, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Madras Branch.

10 Claims

An electrolytic cell for electrolysis of an aqueous alkali metal halide solution comprising an upper anoda compartment having therein substantially horizontal anode plates an being surrounded by a top cover, side walls positioned so as to enclose the anodes and the upper side of the membrane, and being provided with at least one inlet of anolyte solution and at least one outlet of anolyte solution and a lower cathode compartment partitioned by cation or anode gas, and exchange membrane positioned substantially horizontal being surrounded by a cathode plate on which partitioning spacers are arranged at an optional interval side walls so as to enclose the cathode plate and the underside of the membrane, and being provided with at least one inlet of catholyte liquor and at least one outlet of a mixed stream of cathode gas and catholyte liquor.

Compl. Specn. 20 pages Drg. 3 sheets.

CLASS : 136 E. 160489

Int. Cl. : B 29 f 5/00.

"A METHOD AND APPARATUS FOR MAKING A THERMOPLASTIC TUBULAR ARTICLE".

Applicant : METAL BOX p.l.c., A BRITISH COMPANY OF QUEENS HOUSE, FORBURY ROAD, READING, RG1, 3JH, DERKSHIRE, ENGLAND.

Inventors : MELVIN EDWARD RIDDELL ROBINSON., GLYN STAINES PETER EDWIN BUTCHER, DAVID ALLEN DICK, JAMES WILLIAM NNICHOLAS.

Application for Patent No. 274/Mas/84 filed on 19th April, 1984.

Convention Date on 22nd April, 1983, No. 8310966/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

27 Claims

A method of making a thermoplastic tubular article which will be dimensionally stable up to a specific elevated temperature, comprising the steps of sleeving an at least partly biaxially oriented and therefore heat-shrinkable tube of a saturated linear polyester for example polyethylene terephthalate over a mandrel clamping the tube to the mandrel to restrain axial shrinkage of the tube, while maintaining the temperature of the tube and mandrel below the glass transition temperature of the polyester heating the tube to a temperature at least 60°C higher than the said specific elevated temperature so that the tube shrinks radially into contact with the mandrel but is restrained from further radial shrinkage, maintaining the tube at said higher temperature for a time sufficient to ensure the required degree of dimensional stability cooling the tube and mandrel to a temperature below the said specific elevated temperature, and then releasing the contact between the tube and mandrel to allow them to be separated.

Compl. Specn. 18 pages. Drg. 4 Sheets.

CLASS : 190B, 36A1, 15D, 107G,H. 160490

Int. Cl. : F 16n 7/36, 13/00, F 04 b 17/00, F 02 c 7/06.

"CENTRIFUGAL LUBRICATING OIL PUMP OF AN EXHAUST GAS TURBOCHARGER".

Applicant : BBC BROWN, BOVERI & COMPANY LIMITED OF CH-5401 BADEN, SWITZERLAND, A SWISS COMPANY.

Inventor : HANSULRICH HORLER.

Application No. 281/MAS/84 filed 21st April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A centrifugal lubricating oil pump of an exhaust gas turbocharger having a casing a shaft bearing for supporting a turbocharger shaft, said lubricating oil pump comprising a pump rotor (7) located on the turbocharger shaft (1) which pump rotor is provided with air vent ducts (12), an oil suction pipe (9) having a lower end which communicates with an oil sump (11) and an upper end which communicates with a hollow annular chamber (8), which chamber receives a rotating annulus of oil (10) during operation due to a centrifugal force effect, wherein the improvement comprises the pump rotor (7) being provided with two laterally located hollow annular chambers (8) and being fastened on the turbocharger shaft (1) between two shaft bearings (2) the shaft bearings being each located between an oil suction pipe (9) and a hollow annular chamber (8) of the pump rotor (7) the oil being sucked from the oil sump through injection nozzles (16) and through the shaft bearings (2).

Compl. Specn. 11 pages. Drg. 1 Sheet.

CLASS : 190 B, 36 A1, 15 D, 107 G.H. 160491

Int. Cl. : F 16n 7/36, 13/00, F 04 b 17/00, F 02 c 7/06.

"SELF-PRIMING CENTRIFUGAL LUBRICATING OIL PUMP OF AN EXHAUST GAS TURBOCHARGER".

Applicant : BBC BROWN, BOVERI & COMPANY LIMITED OF CH-5401 BADEN, SWITZERLAND, A SWISS COMPENY.

Inventor : HANSULRICH HORLER.

Application No. 282/MAS/84 filed 21st April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

A self-priming centrifugal lubricating oil pump of an exhaust gas turbocharger, of the type having a pump rotor located on the turbocharger shaft and provided with air vent ducts and an oil suction pipe having a lower end which communicates with an oil sump and an upper end which communicates with a hollow annular chamber which chamber receives a rotating annulus of oil during operation due to the centrifugal force effect, the improvement comprising the pump rotor being fastened on the turbocharger shaft between two shaft bearings a stationary U-shaped oil ring channel being located at a larger diameter outside the rotating annular chamber, said U-shaped oil ring channel being connected via an oil branch passage to injection nozzles located at the side of the shaft bearings.

Compl. Specn. 10 pages. Drg. 1 Sheet.

OPPOSITION PROCEEDINGS

(1)

The opposition as entered by M/S. Kay Laboratories Pvt. Ltd. to the grant of a patent on application No. 150204 made by M/S. Hindustan Lever Ltd. as notified in Part III Section 2 of the Gazette of India dated 5-3-1983 has been withdrawn and a patent is ordered to be sealed on said application.

(2)

The opposition as entered by M/S. Kay Laboratories to the grant of a patent on application No. 150204 made by M/S. Hindustan Lever Ltd. as notified in Part III Section 2 of the Gazette of India, dated 12th March, 1983 has been dismissed and a patent has been ordered to be sealed on the application.

(3)

An opposition has been entered by M/s. Patel Machinery Private Limited to grant of a patent on application No. 158561 (405/Del/82) dated 28th May, 1982 made by Chemiefaser Lenzing Aktiengesellschaft.

(4)

An opposition has been entered by M/s. Bajaj Auto Limited to grant of a patent on application No. 158535 dated 27th July, 1982 made by Piaggio & C.S.P.A.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy :—

(1)

116418 116785 116971 117429 118239 118310 118725
118940 122241 122746 125509 126043 127307 129117
131994 192519 133051 133297 133917 134003 134572
135616 136133 137124 137145 137148 137449 137649
137656 137803 137804 137808 137809 137810 137975
139218 139657 140478

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145752 14553 145754 145755 145772

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145611 145625 145627 145660 145661 145662 145666
15671 145676 145677 145697 145705 145709 145713
145714 145720

PATENTS SEALED

155479 157222 157594 157634 157651 157656 157734
157735 157737 157773 157787 157856 157861 157862
157863 157864 157868 157869 157873 157873 157876
157877 157880 157882 157886 157888 157900 157902
157904 157905 157907 157908 15911 157912 157913

RENEWAL FEES PAID

137963 141180 141308 142139 143180 143450 143945
144042 144114 144922 145332 145468 145958 146111
146205 156212 146405 146411 146524 146640 146804
146896 147848 148887 148947 148988 149270 149302
149349 149498 149499 149944 151055 151519 151668
151782 151785 152043 152158 152458 152628 152648
152679 152705 152741 152762 152955 153282 153320
153644 153673 154144 145161 154433 154437 154897
155106 155273 155274 155326 155394 155804 155876
156184 156380 156394 156406 156456 156487 156512
156606 156651 156954 157043 157067 157122 157123
157124 157434 157636 157681 157738 157813 157899
157901

CESSATION OF PATENTS

(1)

139620 139621 139625 139628 139636 139637 139638
139641 139642 149646 139647 139650 139659 139660
139661 139662 139667 139669 139672 139673 139674
139676 139677 139680 139680 139683 139687 139687
139689 139693 139694 139695 139701 139703 139707
139711 139713 139722 139723 139724 139726 139728
139730 139731 139735 139738 139740 139741 139747
139753 139754 139758 139760 139761 139764 139765
139766 139767 139768 139769 139772 139773 139774

(2)

143656 143896 149398 149755 152590 154461 156569 156590 16921

RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 149971 dated the 23-9-80 made by Kumarasamy Sankaran on the 23-10-86 and notified in the Gazette of India, Part III, Section 2 dated the 7-2-87 has been allowed and the said patent restored.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 257440. Safari Industries (India) Limited, 107/0, Khetani Textile Compound, Bazarward, Kurla, Bombay-400070, Maharashtra, India, a public limited company incorporated under the laws of Indian Companies Act "Briefcase Lock.". 9th September, 1986.

Class 1. No. 157672, 157673. Geep Industrial Syndicated Limited, (formerly known as Geep Flashlight Industries Limited), Manufacturers of 28, South Road, Allahabad, U.P., India, an Indian Company. A "Dry Cell Hand Torch". 18th November, 1986.

Class 1. No. 157794. Geep Industrial Syndicate Limited, (formerly known as Geep Flashlight Industries Limited), Manufacturers of 28, South Road, Allahabad, U.P., India, an Indian Company. A "Base Cap for Hand Torch' (Case 1), 22nd December, 1986.

Class 1. No. 157795. Geep Industrial Syndicate Limited, (formerly known as Geep Flashlight Industries Limited), Manufacturers, of 28, South Road, Allahabad, U.P., India, an Indian Company. A "Base Cap for Hand Torch" (Case 2). 22nd December, 1986.

Class 1. No. 157817. Gur Charan Saini, an Indian citizen of B-66, Bangur Avenue, Calcutta-700055, West Bengal, India. A "Table lamp". 29th December, 1986.

Class 3. No. 157531. Kaitan (India) Limited, an Indian Company of 46C, J. L. Nehru Road, Calcutta-700071, West Bengal, India. "Regulator for Electric Fans". 9th October, 1986.

Class 3. Nos. 157701, 157702, 157716, 157721. Interlage A/S., a Danish Company, of Aaastvej 1, DG-7190 Billund, Denmark. "A Toy Building Element". 26th November, 1986.

Class 3. Nos. 157705, 157706, Interlege A/S a Danish Company, of Aaastvej 1, DG-7190 Billund, Denmark. A "Toy Rail Elements". 26th November, 1986.

Class 3. No. 157704, Interlege A/S. a Danish Company, of Aaastvej 1, DG-7190 Billund, Denmark. A "Toy Branched Element". 26th November, 1986.

Class 3. No. 157707. Interlege A/S., a Danish Company, of Aaastvej 1, DG-7190 Billund, Denmark. A "Toy Rail Element with a Polechanger". 26th November, 1986.

Class 3. No. 157710. Interlege A/S., a Danish Company, of Aaastvej 1, DG-7190 Billund, Denmark. A "Toy Fence Element". 26th November, 1986.

Class 3. No. 157717. Interlege A/S., a Danish Company, of Aaastvej 1, DG-7190 Billund, Denmark. A "Toy Branched Element". 26th November, 1986.

Class 3. No. 157569. Wipro Information Technology Limited, of Bakhtawar(14th Floor, 229, Nariman Point, Bombay-400 021, Maharashtra, India, an Indian Company. "A Computer". 23rd October, 1986.

Class 3. No. 157744. Splendour Presentations, C-23, Connaught Place, New Delhi-110001 (India) an Indian Partnehrship concern. "Cello Tape Dispenser". 4th December, 1986.

Class 3. No. 157745. Splendour Presentations, C-23, Connaught Place, New Delhi-110001 (India) an Indian Partnership concern. "Staplingless Paper Clipper". 4th December, 1986.

Class 3. No. 157746. Splendour Presentations, C-23, Connaught Place, New Delhi-110001 (India) an Indian Partnership concern. "Staplingless Clip". 4th December, 1986.

Class 3. No. 157835. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400004, Maharashtra, India, an Indian Partnership Firm. Tiffin Carrier". 31st December, 1986.

Class 3. No. 157836. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400004, Maharashtra, India, an Indian Partnership Firm. "Tray". 31st December, 1986.

Class 3. No. 157837. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400004, Maharashtra, India, an Indian Partnership Firm. "Ice Pail". 31st December, 1986.

Class 4. No. 157751. Om Parkash Ratra, B-5, Institute of Hotel Management, Pusa, New Delhi-110012, an Indian citizen. "Precast Manhole Cover System". 9th December, 1986.

Class 5. No. 157697. Satnam Products, BK. No. 1064, Near Asian Food Products, O.T. Section, Ulhasnagar—Dist. Thana, Maharashtra, India, an Indian Sole Proprietory Firm. "Packing Cartoon". 25th November, 1986.

Extn. of Copyright for the Third period of five years.

Nos. 145122, 145134, 145135, 145136, 145137, 145138.—Class-I.

R. A. ACHARYA,
Controller General of Patents
Designs and Trade Marks.

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